

Epitope Tag Antibodies Product Catalog

Wide range of product variation!



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Abbreviation

aff.: affinity purified

WB: Western blotting, IP: Immunoprecipitation, FCM: Flow cytometry, IC: Immunocytochemistry, IH: Immunohistochemistry,

IF: Immunofluorescence, RIP: RNP Immunoprecipitation, ChIP: Chromatin Immunoprecipitation,

Co-IP: Co-Immunoprecipitation, DB: Dot Blotting, NB: Northern Blotting, RNA FISH: RNA Fluorescence *in situ* Hybridization

*: Reported in articles, but not tested in MBL. For more details please check the datasheet.

Japanese High Quality Antibodies

Wide range of product variation,
from antibodies to purification kits!

Tag Antibodies

Antigen Target	Antibody	Agarose	Biotin	HRP DirecT Series ▶ P.22 ~	Alexa Fluor™ Labeled Antibodies	Magnetic Beads <i>Smart-IP</i> Series ▶ P.24 ~	Magnetic Agarose <i>Smart-IP</i> Series ▶ P.24 ~	Purification Kit	
								Agarose ▶ P.26 ~	Magnetic Beads ▶ P.29 ~
DDDDK ▶ P.4	×	×	×	×	×	×	×	×	×
HA ▶ P.5	×	×	×	×	×	×	×	×	×
His ▶ P.7	×	×	×	×	×	×	×	×	
Myc ▶ P.9	×	×	×	×	×	×	×	×	×
V5 ▶ P.10	×	×	×	×		×	×	×	×
mini-AID ▶ P.12	×								
GFP ▶ P.13	×	×	×	×	×	×	×		
Renilla GFP ▶ P.14	×								
RFP ▶ P.15	×	×		×		×			
S ▶ P.18	×								
E ▶ P.18	×						×		
T7 ▶ P.18	×	×							
VSV-G ▶ P.18	×	×							
GST ▶ P.18	×			×					
Luciferase ▶ P.19	×								
Renilla Luciferase ▶ P.19	×								

Go to page 18-21 for more tag antibodies!

β-galactosidase, MBP, Trx (Thioredoxin), CBD,
CBP (Calmodulin Binding Protein), Ash-tag,
Strep-tagII, Digoxigenin (DIG), FITC

HRP-DirecT : HRP is directly labeled to the antibodies for Western blotting.

Smart-IP : Antibody-conjugated magnetic beads or magnetic agaroses enabled easy and effective immunoprecipitation of tagged proteins.

Purification kits : Use antibody-conjugated agaroses or magnetic beads for protein purification

Alexa Fluor™ is trade mark of Life Technologies. MBL has manufacture and sales the products by receiving the patent license from Life Technologies Corporation in the United States.

DDDDK-tag

Code No.	Description	Clone	Isotype	Applications	Size
M185-3L	Anti-DDDDK-tag mAb	FLA-1	Mouse IgG2 κ	WB, IP, FCM, IC	1 mg/1 mL
M185-6	Anti-DDDDK-tag mAb-Biotin	FLA-1	Mouse IgG2 κ	WB, ELISA	50 μ L
M185-7	Anti-DDDDK-tag mAb-HRP-Direct HRP-Direct	FLA-1	Mouse IgG2 κ	WB	200 μ L
M185-10R	Anti-DDDDK-tag mAb-Magnetic Agarose Smart-IP	FLA-1GS	Mouse IgG2 κ	IP	100 tests (Slurry: 2 mL)
M185-11R	Anti-DDDDK-tag mAb-Magnetic Beads Smart-IP	FLA-1GS	Mouse IgG2 κ	IP	20 tests (Slurry: 1 mL)
M185-A48	Anti-DDDDK-tag mAb-Alexa Fluor™ 488 Alexa Fluor™	FLA-1	Mouse IgG2 κ	FCM, IC	100 μ g/100 μ L
M185-A59	Anti-DDDDK-tag mAb-Alexa Fluor™ 594 Alexa Fluor™	FLA-1	Mouse IgG2 κ	IC	100 μ g/100 μ L
M185-A64	Anti-DDDDK-tag mAb-Alexa Fluor™ 647 Alexa Fluor™	FLA-1	Mouse IgG2 κ	FCM, IC	100 μ g/100 μ L

High sensitivity and high affinity. Can be used in a wide variety of applications.

Applications: WB: 0.1 μ g/mL (M185-3L)

1:2,000 (M185-6)

1:2,000-1:5,000 (M185-7)

IP: 2 μ g/sample (M185-3L)

20 μ L/sample (M185-10R)

50 μ L/sample (M185-11R)

FCM: 0.05 μ g/mL (M185-3L)

0.5 μ g/mL (M185-A48, A64)

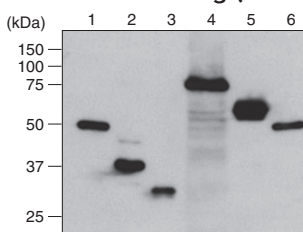
IC: 0.1 μ g/mL (M185-3L)

0.5-1 μ g/mL (M185-A48, A59, A64)

ELISA: 1:2,000 (M185-6)

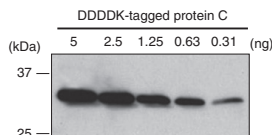
Specificity: Proteins fused with DDDDK-tag, DYKDDDDK, at N-terminal, Internal, and C-terminal.

Western blotting (M185-3L)

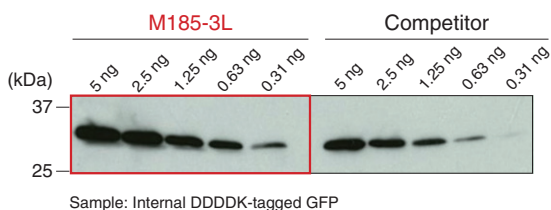


Lane 1: N-terminal Met-DDDDK-tagged protein A
Lane 2: N-terminal DDDDK-tagged protein B
Lane 3: Internal DDDDK-tagged protein C
Lane 4: Internal DDDDK-tagged protein D
Lane 5: C-terminal DDDDK-tagged protein E
Lane 6: C-terminal DDDDK-tagged protein F

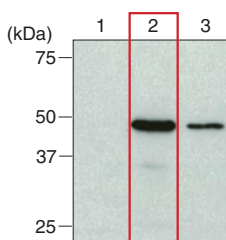
Met: Methionine



Western blotting (M185-3L)



Immunoprecipitation (M185-3L)



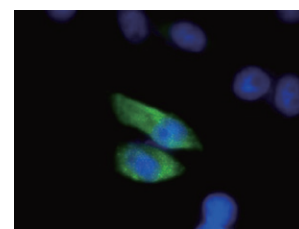
Lane 1: Isotype control

Lane 2: M185-3L

Lane 3: Competitor

Sample: N-terminal DDDDK-tagged BAP

Immunocytochemistry (M185-3L)



Green: M185-3L

Blue: DAPI counter stain

Cells: DDDDK-tagged protein/HeLa cells

Code No.	Description	Clone	Isotype	Applications	Size
PM020	Anti-DDDDK-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP, IC	100 μ L
PM020-7	Anti-DDDDK-tag pAb-HRP-Direct HRP-Direct	Polyclonal	Rabbit Ig (aff.)	WB	100 μ L
PM020-8	Anti-DDDDK-tag pAb-Agarose Agarose	Polyclonal	Rabbit Ig (aff.)	IP	Gel: 200 μ L

Reacts with N-terminal, Internal, and C-terminal.

Applications: WB: 1:1,000 (PM020)

1:1,000-1:4,000 (PM020-7)

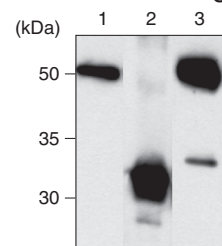
IP: 5 μ L/sample (PM020)

20 μ L/sample (PM020-8)

IC: 1:1,000 (PM020)

Specificity: Proteins fused with DDDDK-tag, DYKDDDDK, at N-terminal, Internal, and C-terminal.

Western blotting (PM020)

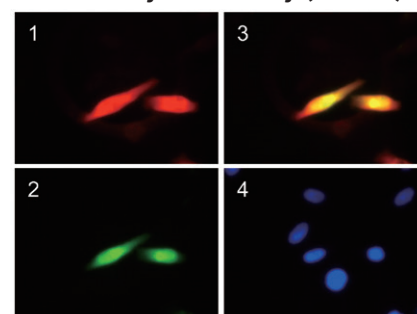


Lane 1: N-terminal DDDDK-tagged protein

Lane 2: Internal DDDDK-tagged protein

Lane 3: C-terminal DDDDK-tagged protein

Immunocytochemistry (PM020)



1: Anti-DDDDK-tag pAb (PM020)

2: GFP own fluorescence

3: Merge, 1 and 2

4: DAPI

DDDDK-tagged GFP expressed in HeLa

HA-tag

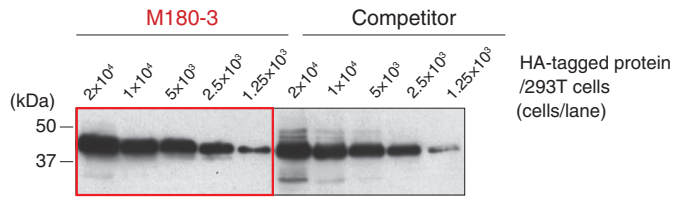
Code No.	Description	Clone	Isotype	Applications	Size
M180-3	Anti-HA-tag mAb	TANA2	Mouse IgG2b κ	WB, IP, FCM, IC, RIP*, Co-IP*	200 μ g/200 μ L
M180-6	Anti-HA-tag mAb-Biotin	TANA2	Mouse IgG2b κ	ELISA	50 μ L
M180-7	Anti-HA-tag mAb-HRP-Direct HRP-Direct	TANA2	Mouse IgG2b κ	WB	100 μ L
M180-10	Anti-HA-tag mAb-Magnetic Agarose Smart-IP	TANA2	Mouse IgG2b κ	IP	20 tests (Slurry: 400 μ L)
M180-11	Anti-HA-tag mAb-Magnetic Beads Smart-IP	TANA2	Mouse IgG2b κ	IP	20 tests (Slurry: 1 mL)
M180-A48	Anti-HA-tag mAb-Alexa Fluor™ 488 Alexa Fluor™	TANA2	Mouse IgG2b κ	FCM, IC	100 μ g/100 μ L
M180-A59	Anti-HA-tag mAb-Alexa Fluor™ 594 Alexa Fluor™	TANA2	Mouse IgG2b κ	IC	100 μ g/100 μ L
M180-A64	Anti-HA-tag mAb-Alexa Fluor™ 647 Alexa Fluor™	TANA2	Mouse IgG2b κ	FCM, IC	100 μ g/100 μ L

High sensitivity. Can be used in a wide variety of applications regardless of the HA-tagged position.

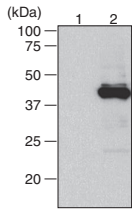
Applications: WB: 0.1 μ g/mL (M180-3)
 1:5,000-1:10,000 (M180-7)
 IP: 2 μ g/sample (M180-3)
 10 μ L/sample (M180-10)
 50 μ L/sample (M180-11)
 FCM: 1 μ g/mL (M180-3, 3S, A48)
 2-5 μ g/mL (M180-A64)
 IC: 1 μ g/mL (M180-3, A48, A59)
 2-5 μ g/mL (M180-A64)
 ELISA: 1:2,000 (M180-6)

Specificity: Proteins fused with HA-tag, YPYDVPDYA,
 the peptide sequence derived from human influenza hemagglutinin.

Western blotting (M180-3)

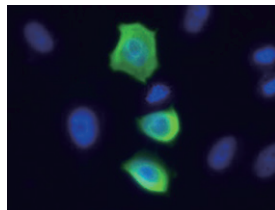


Immunoprecipitation (M180-3)



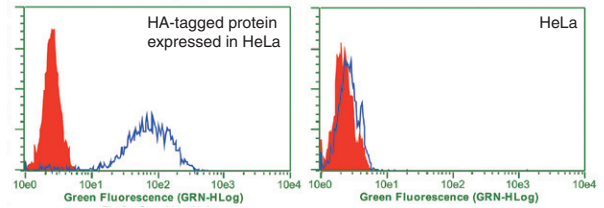
Lane 1:
 IP with Isotype control (M077-3)
 Lane 2:
 IP with Anti-HA-tag mAb (M180-3)
 Immunoblotted with 561-7 (discontinued)

Immunocytochemistry (M180-3)



HA-tagged protein expressed in HeLa
 Green: Anti-HA-tag mAb (M180-3)
 Blue: DAPI

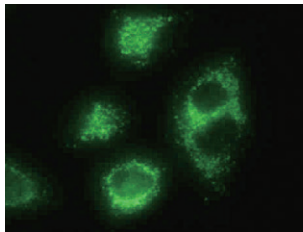
Flow cytometry (M180-3)



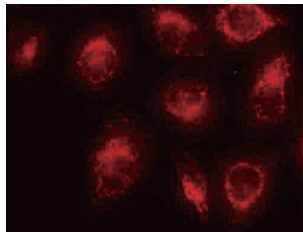
Open: Anti-HA-tag mAb (M180-3)
 Closed: Isotype control (M077-3)

Anti-HA-tag Alexa Fluor™ 488, 594, 647 (M180-A48, A59, A64)

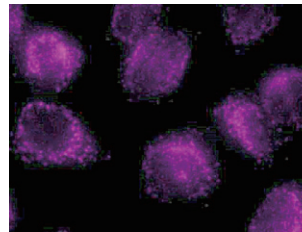
Sample: HA-tagged protein expressed in HeLa



Green: Alexa Fluor™ 488



Red: Alexa Fluor™ 594



Magenta: Alexa Fluor™ 647

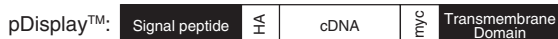
DDDDK-tag
 HA-tag
 His-tag
 Myc-tag
 V5-tag
 mini-AID-tag
 Fluorescent Protein
 Antibodies
 Other Tag
 Antibodies
 HRP-Direct
 Smart-IP
 Purification
 Kit and Gel
 FAQs
 Isotype Control
 Antibodies
 Loading Control
 Antibodies
 Organelle Marker
 Antibodies

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
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Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Code No.	Description	Clone	Isotype	Applications	Size
M132-3	Anti-HA-tag mAb	5D8	Mouse IgG1 κ	WB, IP	200 μ g/100 μ L
M132-10	Anti-HA-tag mAb-Magnetic Agarose Smart-IP	5D8	Mouse IgG1 κ	IP	20 tests (Gel: 200 μ L)
M132-11	Anti-HA-tag mAb-Magnetic Beads Smart-IP	5D8	Mouse IgG1 κ	IP	20 tests (Slurry: 1 mL)

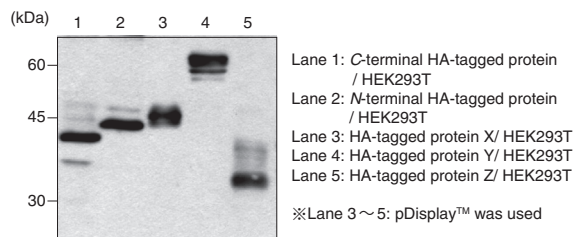
Applications: WB: 1 μ g/mL (M132-3)
 IP: 1 μ g/sample (M132-3)
 10 μ L/sample (M132-10)
 50 μ L/sample (M132-11)

Specificity: Proteins fused with HA-tag, YPYDVPDYA, at N-terminal and C-terminal, including those expressed from pDisplayTM vector.



*pDisplayTM is a trade mark of Life Technologies Corporation in the United States.

Western blotting (M132-3)

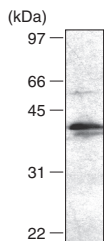


Code No.	Description	Clone	Isotype	Applications	Size
561	Anti-HA-tag pAb	Polyclonal	Rabbit IgG	WB, IP, IC	100 μ L
561-5	Anti-HA-tag pAb	Polyclonal	Rabbit IgG	WB, IP, IC	500 μ L
561-8	Anti-HA-tag pAb-Agarose Agarose	Polyclonal	Rabbit Ig (aff.)	IP	Gel: 200 μ L

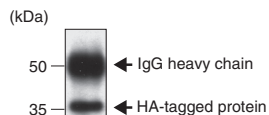
Applications: WB: 1:1,000 (561, 561-5)
 IP: 1 μ L/sample (561, 561-5)
 20 μ L/sample (561-8)
 IC: 1:200 (561, 561-5)

Specificity: Proteins fused with HA-tag, YPYDVPDYA, the peptide sequence derived from human influenza hemagglutinin.

Western blotting (561) Immunoprecipitation (561)

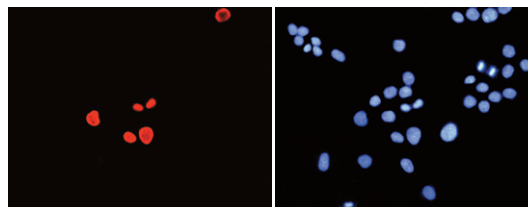


Sample: HA-tagged protein transfectant



Sample: HA-tagged protein transfectant
 Immunoblotted with 561

Immunocytochemistry (561)



Anti-HA-tag pAb (561)

Hoechst

HA-Max transfected into BHK cells

Data were provided by Dr. Futoshi Shibasaki, Tokyo Metropolitan Institute of Medical Science.

His-tag

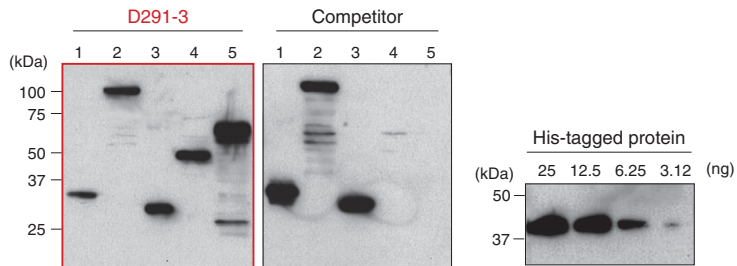
Code No.	Description	Clone	Isotype	Applications	Size
D291-3	Anti-His-tag mAb	OGHis	Mouse IgG2ak	WB, IP, FCM, IC	200 µg/200 µL
D291-6	Anti-His-tag mAb-Biotin	OGHis	Mouse IgG2ak	ELISA	50 µg/50 µL
D291-7	Anti-His-tag mAb-HRP-Direct HRP-Direct	OGHis	Mouse IgG2ak	WB	50 µL
D291-8	Anti-His-tag mAb-Agarose Agarose	OGHis	Mouse IgG2ak	IP	Gel: 200 µL
D291-10	Anti-His-tag mAb-Magnetic Agarose Smart-IP	OGHis	Mouse IgG2ak	IP	20 tests (Gel: 200 µL)
D291-11	Anti-His-tag mAb-Magnetic Beads Smart-IP	OGHis	Mouse IgG2ak	IP	20 tests (Slurry: 1 mL)
D291-A48	Anti-His-tag mAb-Alexa Fluor™ 488 Alexa Fluor™	OGHis	Mouse IgG2ak	FCM, IC	50 µg/50 µL
D291-A59	Anti-His-tag mAb-Alexa Fluor™ 594 Alexa Fluor™	OGHis	Mouse IgG2ak	IC	50 µg/50 µL
D291-A64	Anti-His-tag mAb-Alexa Fluor™ 647 Alexa Fluor™	OGHis	Mouse IgG2ak	FCM, IC	50 µg/50 µL

High specificity. Can be used for cell staining regardless of the His-tagged position.

Applications: WB: 0.2 µg/mL (D291-3)
 1:5,000 (D291-7)
 IP: 1 µg/sample (D291-3)
 20 µL/sample (D291-8)
 10 µL/sample (D291-10)
 50 µL/sample (D291-11)
 FCM: 0.2 µg/mL (D291-3)
 0.5 µg/mL (D291-A48, A64)
 IC: 0.5 µg/mL (D291-3)
 1 µg/mL (D291-A48, A59, A64)
 ELISA: 0.25-1 µg/mL (D291-6)

Specificity: N-terminal, Internal,
 and C-terminal 6xHis-tagged proteins.

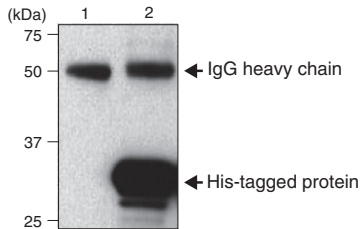
Western blotting (D291-3)



Lane 1: N-terminal Met-His-tagged protein
 Lane 2: Internal His-tagged protein
 Lane 3: Internal His-tagged protein
 Lane 4: C-terminal His-tagged protein
 Lane 5: C-terminal His-tagged protein

Met: Methionine

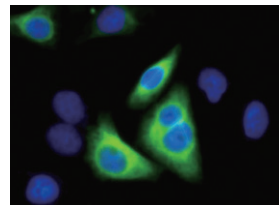
Immunoprecipitation (D291-3)



Lane 1: IP with Isotype control (M076-3)
 Lane 2: IP with Anti-His-tag mAb (D291-3)

Immunoblotted with D291-3

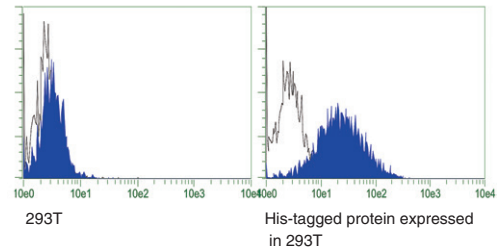
Immunocytochemistry (D291-3)



His-tagged protein expressed in HeLa

Green: Anti-His-tag mAb (D291-3)
 Blue: DAPI

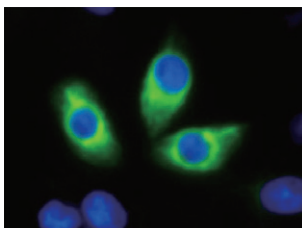
Flow cytometry (D291-3)



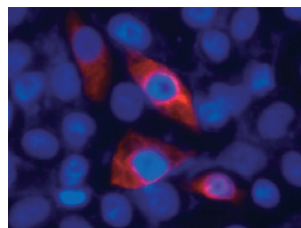
Open: Isotype control
 Closed: Anti-His-tag mAb (D291-3)

Anti-His-tag Alexa Fluor™ 488, 594, 647 (D291-A48, A59, A64)

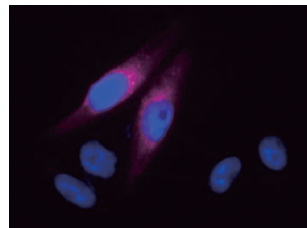
Sample: His-tagged protein expressed in HeLa



Green: Alexa Fluor™ 488
 Blue: DAPI



Red: Alexa Fluor™ 594
 Blue: DAPI



Magenta: Alexa Fluor™ 647
 Blue: DAPI

DDDDK-tag
 HA-tag
 His-tag
 Myc-tag
 V5-tag
 mini-AID-tag
 Fluorescent Protein Antibodies
 Other Tag Antibodies
 HRP-Direct
 Smart-IP
 Purification Kit and Gel
 FAOs
 Isotype Control Antibodies
 Loading Control Antibodies
 Organelle Marker Antibodies

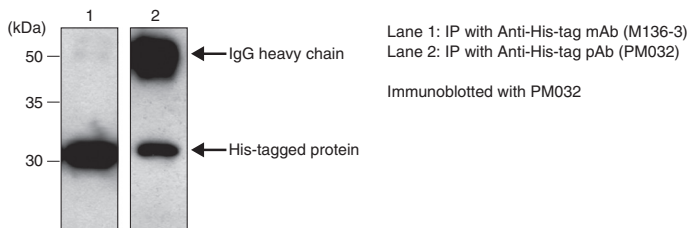
DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Code No.	Description	Clone	Isotype	Applications	Size
M136-3	Anti-His-tag mAb	2D8	Mouse IgG2b	IP	100 µg/100 µL

Great performance in IP.

Applications: IP: 0.5-2.0 µg/sample
 Specificity: *N*-terminal and *C*-terminal 6xHis-tagged proteins.

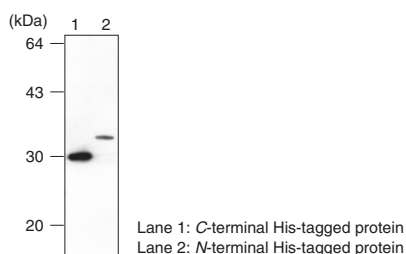
Immunoprecipitation



Code No.	Description	Clone	Isotype	Applications	Size
M089-3	Anti-His-tag mAb	6C4	Mouse IgG1	WB	100 µg/100 µL

Applications: WB: 1 µg/mL
 Specificity: *N*-terminal and *C*-terminal 6xHis-tagged proteins.

Western blotting

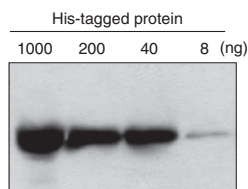


Code No.	Description	Clone	Isotype	Applications	Size
PM032	Anti-His-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP	100 µL
PM032-8	Anti-His-tag pAb-Agarose Agarose	Polyclonal	Rabbit Ig (aff.)	IP	Gel: 200 µL

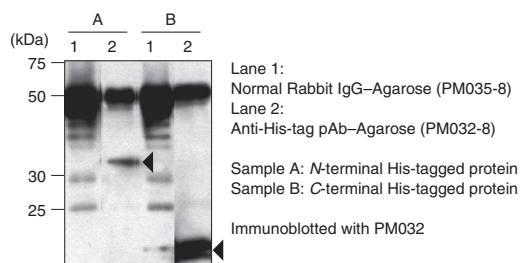
Reacts with *N*-terminal and *C*-terminal.

Applications: WB: 1:1,000 (PM032)
 IP: 5 µL/sample (PM032)
 20 µL/sample (PM032-8)
 Specificity: *N*-terminal and *C*-terminal 6xHis-tagged proteins.

Western blotting (PM032)



Immunoprecipitation (PM032-8)



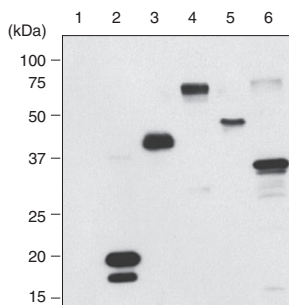
Myc-tag

Code No.	Description	Clone	Isotype	Applications	Size
M192-3	Anti-Myc-tag mAb	My3	Mouse IgG2b κ	WB, IP, FCM, IC	200 μ g/200 μ L
M192-6	Anti-Myc-tag mAb-Biotin	My3	Mouse IgG2b κ	WB, ELISA	50 μ L
M192-7	Anti-Myc-tag mAb-HRP-Direct HRP-Direct	My3	Mouse IgG2b κ	WB	100 μ L

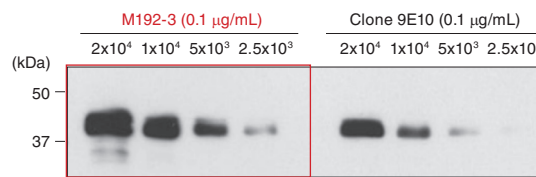
Beats clone 9E10 in sensitivity.

Applications: WB: 0.1 μ g/mL (M192-3)
 1:10,000 (M192-6, 7)
 IP: 2 μ g/sample (M192-3)
 FCM: 0.1 μ g/mL (M192-3)
 IC: 0.5 μ g/mL (M192-3)
 ELISA: 1:2,000 (M192-6)
 Specificity: Proteins fused with Myc-tag, EQKLISEDL.

Western blotting (M192-3)

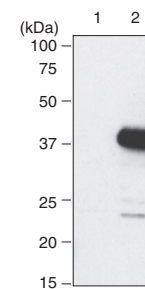


Lane 1: Parental cell (293T)
 Lane 2: N-terminal Myc-tagged protein A/293T
 Lane 3: C-terminal Myc-tagged protein B/293T
 Lane 4: C-terminal Myc-tagged protein C/293T
 Lane 5: C-terminal Myc-tagged protein D/293T
 Lane 6: Internal Myc-tagged protein E/293T



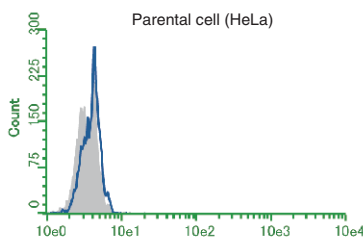
Sample: C-terminal Myc-tagged protein A/293T

Immunoprecipitation (M192-3)



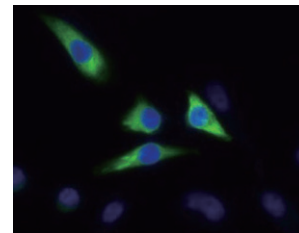
Lane 1: IP with isotype control (M077-3)
 Lane 2: IP with Anti-Myc-tag mAb (M192-3)
 Immunoblotted with M047-7

Flow cytometry (M192-3)



Open: Anti-Myc-tag mAb (M192-3)
 Closed: Isotype control (M077-3)

Immunocytochemistry (M192-3)

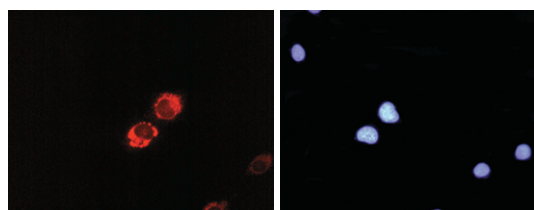


Myc-tagged protein in HeLa
 Green: Anti-Myc-tag mAb (M192-3)
 Blue: DAPI

Code No.	Description	Clone	Isotype	Applications	Size
562	Anti-Myc-tag pAb	Polyclonal	Rabbit IgG	WB, IP, IC, IH*, ELISA*, ChIP*	100 μ L
562-5	Anti-Myc-tag pAb	Polyclonal	Rabbit IgG	WB, IP, IC, IH*, ELISA*, ChIP*	500 μ L

Applications: WB: 1:1,000
 IP: 2 μ L/sample
 IC: 1:250
 Specificity: Proteins fused with Myc-tag,
 EQKLISEDL.

Immunocytochemistry (562)



Anti-Myc-tag pAb (562) Hoechst

Myc-tagged Bcl-2 transfected into BHK

Data were provided by Dr. Futoshi Shibasaki,
 Tokyo Metropolitan Institute of Medical Science.

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Code No.	Description	Clone	Isotype	Applications	Size
M047-3	Anti-Myc-tag mAb	PL14	Mouse IgG1 κ	WB, IP, IC, RIP*	200 μ g/100 μ L
M047-7	Anti-Myc-tag mAb-HRP-Direct HRP-Direct	PL14	Mouse IgG1 κ	WB	100 μ L
M047-8	Anti-Myc-tag mAb-Agarose Agarose	PL14	Mouse IgG1 κ	IP	Gel: 200 μ L
M047-10	Anti-Myc-tag mAb-Magnetic Agarose Smart-IP	PL14	Mouse IgG1 κ	IP	20 tests (Gel: 200 μ L)
M047-11	Anti-Myc-tag mAb-Magnetic Beads Smart-IP	PL14	Mouse IgG1 κ	IP	20 tests (Slurry: 1 mL)
M047-A48	Anti-Myc-tag mAb-Alexa Fluor™ 488 Alexa Fluor™	PL14	Mouse IgG1 κ	FCM, IC	100 μ g/100 μ L
M047-A59	Anti-Myc-tag mAb-Alexa Fluor™ 594 Alexa Fluor™	PL14	Mouse IgG1 κ	IC	100 μ g/100 μ L
M047-A64	Anti-Myc-tag mAb-Alexa Fluor™ 647 Alexa Fluor™	PL14	Mouse IgG1 κ	FCM, IC	100 μ g/100 μ L

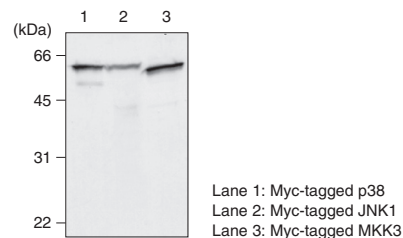
Can be used in wide variety of applications.

Applications: WB: 1 μ g/mL (M047-3)
 1:1,000-1:4,000 (M047-7)
 IP: 5 μ g/sample (M047-3)
 20 μ L/sample (M047-8)
 10 μ L/sample (M047-10)
 50 μ L/sample (M047-11)

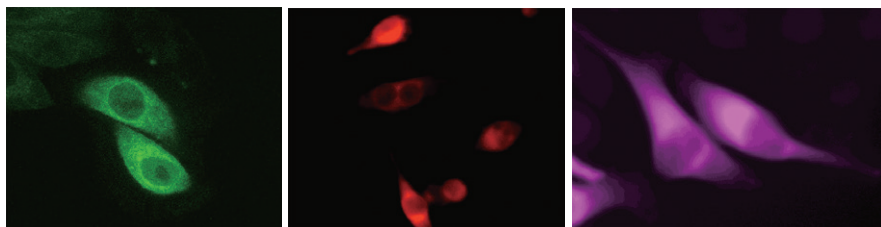
IC: 2 μ g/mL (M047-3)
 5 μ g/mL (M047-A48, A59)
 10 μ g/mL (M047-A64)
 FCM: 2-5 μ g/mL (M047-A48)
 5 μ g/mL (M047-A64)

Specificity: Proteins fused with Myc-tag, EQKLISEDL.

Western blotting (M047-3)



Immunocytochemistry (M047-A48, A59, A64)



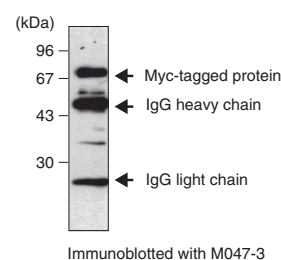
Anti-Myc-tag mAb-Alexa Fluor™ 488 (M047-A48)

Anti-Myc-tag mAb-Alexa Fluor™ 594 (M047-A59)

Anti-Myc-tag mAb-Alexa Fluor™ 647 (M047-A64)

Myc-tagged protein expressed in HeLa

Immunoprecipitation (M047-3)



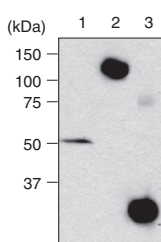
V5-tag

Code No.	Description	Clone	Isotype	Applications	Size
M167-3	Anti-V5-tag mAb	1H6	Mouse IgG2a κ	WB, IP, IC	100 μ g/100 μ L
M167-10	Anti-V5-tag mAb-Magnetic Agarose Smart-IP	1H6	Mouse IgG2a κ	IP	20 tests (Gel: 200 μ L)
M167-11	Anti-V5-tag mAb-Magnetic Beads Smart-IP	1H6	Mouse IgG2a κ	IP	20 tests (Slurry: 1 mL)

Applications: WB: 1 μ g/mL (M167-3)
 IP: 5 μ g/sample (M167-3)
 10 μ L/sample (M167-10)
 50 μ L/sample (M167-11)
 IC: 5 μ g/mL (M167-3)

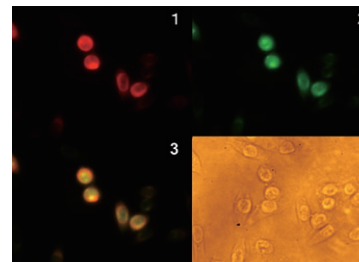
Specificity: Proteins fused with V5-tag, GKPIPNPLGLDST, the peptide sequence derived from simian virus 5, at N-terminal and C-terminal.

Western blotting (M167-3)



Lane1: V5-tagged protein transfectant
 Lane2: C-terminal V5-tagged protein
 Lane3: N-terminal V5-tagged protein

Immunocytochemistry (M167-3)



1: Anti-V5-tag pAb (M167-3)
 2: GFP own fluorescence
 3: Merge, 1 and 2
 4: Transmission light

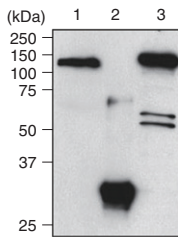
Code No.	Description	Clone	Isotype	Applications	Size
M215-3	Anti-V5-tag mAb	OZA3	Mouse IgG2bk	WB, IP, FCM, IC	100 µg/100 µL
M215-6	Anti-V5-tag mAb-Biotin	OZA3	Mouse IgG2bk	WB, ELISA	50 µL
M215-7	Anti-V5-tag mAb-HRP-DirectT HRP-DirectT	OZA3	Mouse IgG2bk	WB	100 µL
M215-11	Anti-V5-tag mAb-Magnetic Beads Smart-IP	OZA3	Mouse IgG2bk	IP	20 tests (Slurry: 1 mL)

Higher performance in WB, IP, and IC as compared to clone 1H6. Can be used in FCM as well!

Applications: WB: 1 µg/mL (M215-3)
 1:1,000 (M215-10)
 IP: 2.5 µg/sample (M215-3)
 50 µL/sample (M215-11)
 IC: 1 µg/mL (M215-3)
 FCM: 0.5 µg/mL (M215-3)

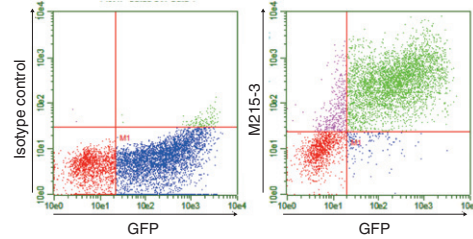
Specificity: Proteins with V5-tag, GKPIPPLLGLDST, the peptide sequence derived from simian virus 5.

Western blotting (M215-3)



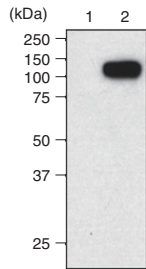
Lane 1: V5-tagged TPO in insect cell culture sup (5 µL/lane)
 Lane 2: V5-tagged GFP (25 ng/lane)
 Lane 3: V5-tagged β-galactosidase/HEK293T

Flow cytometry (M215-3)



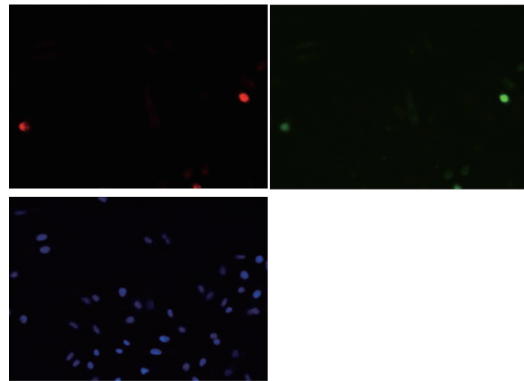
Cells: V5-tag GFP/HEK293T
 Left: Isotype control (M077-3)
 Right: M215-3

Immunoprecipitation (M215-3)



Sample: Insect cell culture sup containing V5-tagged TPO
 Lane 1: Isotype control (M077-3)
 Lane 2: M215-3
 Immunoblotted with Anti-V5-tag pAb-HRP-DirectT (PM003-7, discontinued)

Immunocytochemistry (M215-3)



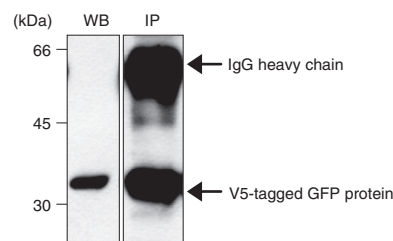
Red: M215-3
 Green: V5-tagged GFP own fluorescence
 Blue: DAPI
 Cells: V5-tagged GFP in HeLa transfectant

Code No.	Description	Clone	Isotype	Applications	Size
PM003	Anti-V5-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP, IF*, ChIP*	100 µL
PM003-8	Anti-V5-tag pAb-Agarose Agarose	Polyclonal	Rabbit Ig (aff.)	IP	20 tests (Gel: 200 µL)

Applications: WB: 1:2,000 (PM003)
 IP: 5 µL/sample (PM003)
 20 µL/sample (PM003-8)

Specificity: Proteins fused with V5-tag, GKPIPPLLGLDST, the peptide sequence derived from simian virus 5.

Western blotting / Immunoprecipitation (PM003)



DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-DirectT
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Auxin-induced rapid protein degradation!

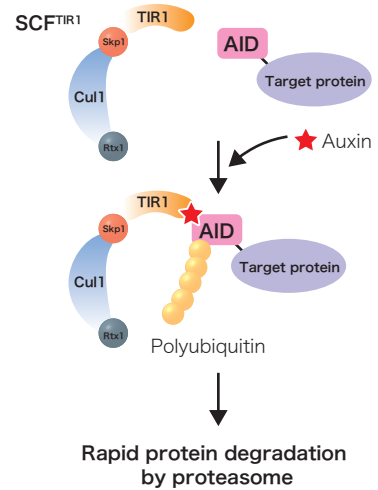
© Both mini-AID-tag and full-length AID-tag can be detected.

Auxin-inducible degron (AID) technology enables to deplete a protein of interest in a half-life less than 30 min by the addition of auxin to culture medium. Auxin includes chemicals such as IAA (indole-3-acetic acid) and NAA (1-naphthalene acetic acid) and includes inhibitors in plants. For the degradation, SCF ubiquitin ligase complex containing the TIR1 protein is activated via the association of auxin with TIR1. Because the core SCF components are conserved in all eukaryotic cells, it is possible to transplant the degradation pathway to yeast and mammalian cells by expressing TIR1. In those cells expressing TIR1, a protein fused with a degron (AID degron) derived from AUX/IAA can be rapidly degraded in the presence of auxin.

mini-AID-tag (8kDa) was developed based on the full-length AID-tag (25kDa). Our original anti-mini-AID-tag, Clone 1E4, can detect mini-AID-tag and full-length AID-tag as well.

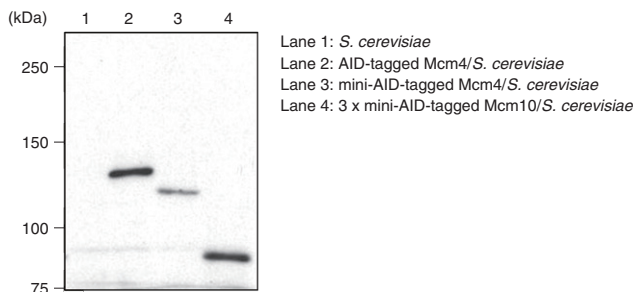
*Expression vector can be obtained by RikenBRC, NBRP-Yeast, or Addgene.

*The original picture is provided by Dr. Masato Kanemaki from NIG. The picture on the right is edited by MBL.



Western blotting (M214-3)

Can detect full-length of AID-tag and mini-AID-tag.



The performance has been proven in articles.

Natsume T *et al.* Rapid Protein Depletion in Human Cells by Auxin-Inducible Degron Tagging with Short Homology Donors. Cell Rep. 15, 210-8 (2016) (PMID:27052166)

References

- 1) Nishimura K *et al.* Nature Methods, 6, 917-222(2009) (PMID:19915560)
- 2) Nishimura K, Kanemaki MT. Current Protocols in Cell Biology, 64, 20.9.1-16(2014) (PMID:25181302)

Code No.	Description	Clone	Isotype	Applications	Size
M214-3	Anti-mini-AID-tag mAb	1E4	Mouse IgG2 α c	WB, IP, IC	100 μ g/100 μ L

Fluorescent Protein Antibodies

GFP (Green Fluorescent Protein)

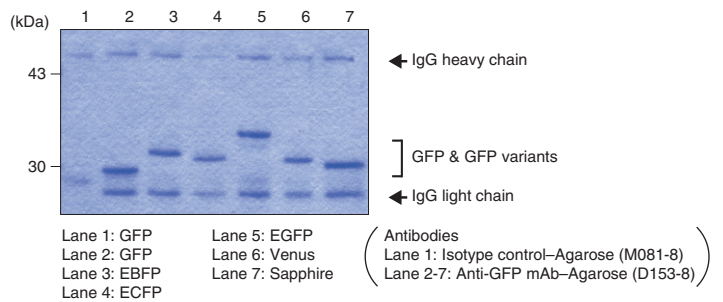
Code No.	Description	Clone	Isotype	Applications	Size
D153-3	Anti-GFP (Green Fluorescent Protein) mAb	RQ2	Rat IgG2aκ	IP, IC	100 µg/100 µL
D153-6	Anti-GFP mAb-Biotin	RQ2	Rat IgG2aκ	ELISA	50 µL
D153-8	Anti-GFP (Green Fluorescent Protein) mAb-Agarose Agarose	RQ2	Rat IgG2aκ	IP, ChIP*, Co-IP*, Purification*	Gel: 200 µL
D153-10	Anti-GFP mAb-Magnetic Agarose Smart-IP	RQ2	Rat IgG2aκ	IP	20 tests (Gel: 200 µL)
D153-11	Anti-GFP (Green Fluorescent Protein) mAb-Magnetic Beads Smart-IP	RQ2	Rat IgG2aκ	IP	20 tests (Slurry: 1 mL)
D153-A48	Anti-GFP (Green Fluorescent Protein) mAb-Alexa Fluor™ 488 Alexa Fluor™	RQ2	Rat IgG2aκ	IC	50 µg/50 µL
D153-A59	Anti-GFP (Green Fluorescent Protein) mAb-Alexa Fluor™ 594 Alexa Fluor™	RQ2	Rat IgG2aκ	IC	50 µg/50 µL
D153-A64	Anti-GFP (Green Fluorescent Protein) mAb-Alexa Fluor™ 647 Alexa Fluor™	RQ2	Rat IgG2aκ	IC	50 µg/50 µL

Excellent performance in IP and staining.

Applications: IP: 0.5-2 µg/sample (D153-3)
 20 µL/sample (D153-8)
 10 µL/sample (D153-10)
 50 µL/sample (D153-11)
 IC: 2 µg/mL (D153-3)
 2-5 µg/mL (D153-A48, A59, A64)
 ELISA: 1:5,000/sample (D153-6)

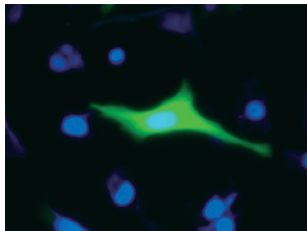
Specificity: Reacts with GFP, EBFP, EGFP, Venus, and Sapphire.

Immunoprecipitation (D153-8)

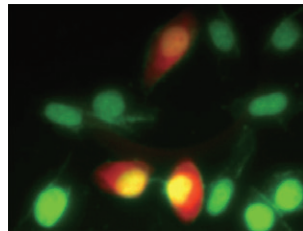


Anti-GFP Alexa Fluor™ 488, 594, 647 (D153-A48, A59, A64)

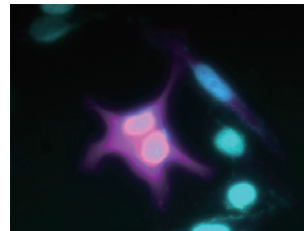
Sample: GFP expressed in HeLa



Green: Alexa Fluor™ 488,
 GFP own fluorescence
 Blue: DAPI



Red: Alexa Fluor™ 594
 Green: DAPI



Magenta: Alexa Fluor™ 647
 Cyan: DAPI

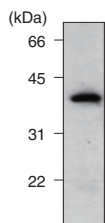
Code No.	Description	Clone	Isotype	Applications	Size
M048-3	Anti-GFP mAb	1E4	Mouse IgG2b	WB, IP, IC, IH	100 µg/100 µL

Can be used in a wide variety of applications.

Applications: WB: 1 µg/mL
 IP: 5 µg/sample
 IC: 2 µg/mL
 IH: 10 µg/mL

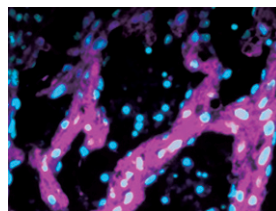
Specificity: Reacts with GFP, EBFP, SEBFP, ECFP, SECFP, EGFP, SEGFP, cpSEGFP, EYFP, Venus, cpVenus, R-pericam, and Sapphire.

Western blotting

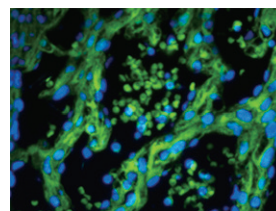


Sample: GFP fusion protein transfectant

Immunohistochemistry



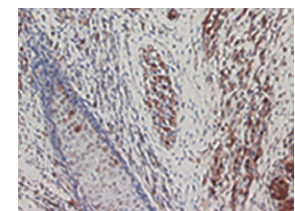
Anti-GFP mAb (M048-3)



GFP own fluorescence

Paraffin embedded section of GFP transgenic mouse.
 Magenta: Anti-GFP mAb (M048-3)
 Green: GFP own fluorescence
 Cyan and Blue: DAPI

Immunohistochemistry



Anti-GFP mAb (M048-3)

Paraffin embedded section of GFP transgenic mouse.

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Code No.	Description	Clone	Isotype	Applications	Size
598	Anti-GFP pAb	Polyclonal	Rabbit IgG	WB, IP, IC, IH, ChIP*, Immunoelectron microscopy*	100 μ L
598-7	Anti-GFP pAb-HRP-Direct HRP-Direct	Polyclonal	Rabbit IgG	WB	100 μ L

The best Anti-GFP.

Applications: WB: 1:1,000-1:5,000 (598)
1:1,000-1:4,000 (598-7)

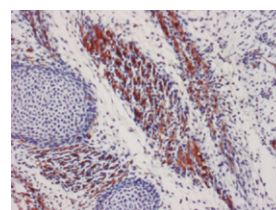
IP: 1 μ L/sample (598)

IC: 1:500 (598)

IH: 1:1,000-1:2,000 (598)

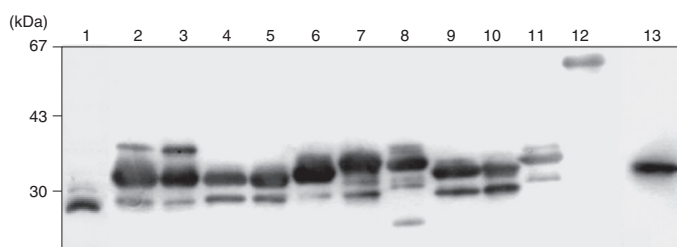
Specificity: Reacts with GFP, EBFP, SEBFP, ECFP, SECFP, EGFP, SEGFP, cpSEGFP, EYFP, Venus, cpVenus, R-pericam, and Sapphire.

Immunohistochemistry (598)



GFP Mouse paraffin-embedded section stained with Anti-GFP pAb (598)

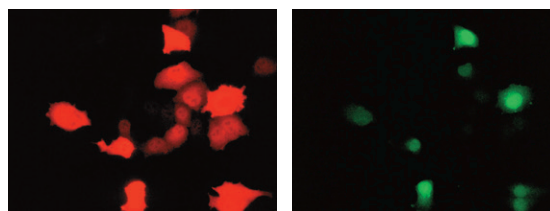
Western blotting (598)



Lane 1: GFP Lane 4: ECFP* Lane 7: SEGFP* Lane 10: Venus*
Lane 2: EBFP* Lane 5: SECFP* Lane 8: cpSEGFP* Lane 11: cpVenus*
Lane 3: SEBFP* Lane 6: EGFP* Lane 9: EYFP* Lane 12: R-pericam*
Lane 13: Sapphire*

*: Control proteins were provided by RIKEN.

Immunocytochemistry (598)



Anti-GFP pAb (598)

GFP own fluorescence

GFP expressed in BHK

Data were provided by Dr. Futoshi Shibasaki, Tokyo Metropolitan Institute of Medical Science.

Reactivity of Anti-GFP and GFP variants

	GFP	EGFP	SEGFP	EBFP	SEBFP	ECFP	SECFP	cpSEGFP	EYFP	Venus	cpVenus	R-pericam	Sapphire
598 (polyclonal)	○	○	○	○	○	○	○	○	○	○	○	○	○
M048-3 (1E4)	○	○	○	○	○	○	○	○	○	○	○	○	○
D153-3 (RQ2)	○	○	N.T.	○	N.T.	○	N.T.	N.T.	N.T.	○	N.T.	N.T.	○

Renilla GFP

Code No.	Description	Clone	Isotype	Applications	Size
PM073	Anti-Renilla GFP pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP, FCM, IC	100 μ L

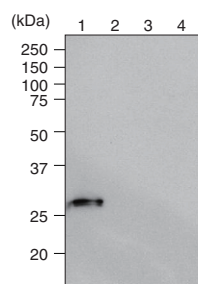
Applications: WB: 1:1,000
P: 1 μ L/sample

FCM: 1:2,000

IC: 1:2,000

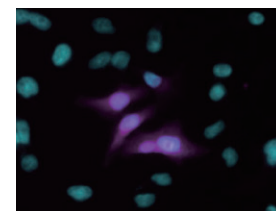
Specificity: Reacts with *Renilla* GFP, but not with *Aequorea Victoria* GFP or EGFP.

Western blotting



Lane 1: *Renilla* GFP/293T
Lane 2: 293T
Lane 3: EGFP/293T
Lane 4: *Aequorea victoria* GFP

Immunocytochemistry



Magenta: Anti-Renilla GFP pAb (PM073)
Cyan: DAPI

Renilla GFP in HeLa transfectant

RFP (Red Fluorescent Protein)

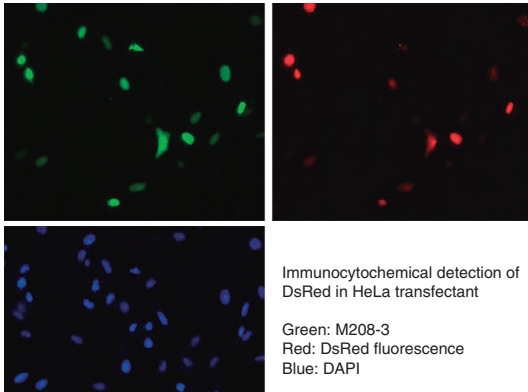
Code No.	Description	Clone	Isotype	Applications	Size
M208-3	Anti-RFP mAb Cocktail	1G9, 3G5 (mixed)	Mouse IgG2b κ , IgG1 κ	WB, IP, FCM, IC	50 μ g/50 μ L

© A cocktail of the clone 1G9, good for WB, and clone 3G5, for IC, IP, and FCM.

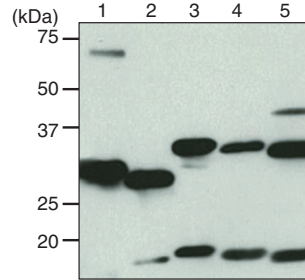
Applications: WB: 1 μ g/mL
 IP: 5 μ g/ sample
 IC: 1 μ g/mL
 FCM: 0.1-1 μ g/mL

Specificity: Reacts with DsRed, mRFP1, mCherry, mOrange, and mPlum.

■ Immunocytochemistry (M208-3)



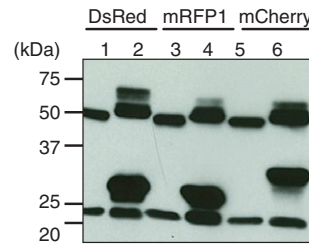
■ Western blotting (M208-3)



Western blot analysis of RFP variants

Lane 1: DsRed
 Lane 2: mRFP1*
 Lane 3: mCherry*
 Lane 4: mOrange*
 Lane 5: mPlum*

*Samples were provided by RIKEN.



Immunoprecipitation of RFP variants

Lane 1, 2: DsRed recombinant protein (5 mg)
 Lane 3, 4: mRFP1/HEK293T cell lysate*
 Lane 5, 6: mCherry recombinant protein* (5 mg)

Lane 1, 3, 5: Mouse IgG1 (isotype control) (M075-3)

Lane 2, 4, 6: M208-3

*Samples were provided by RIKEN.

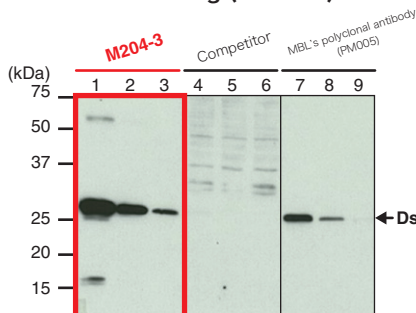
Code No.	Description	Clone	Isotype	Applications	Size
M204-3	Anti-RFP mAb	1G9	Mouse IgG2b κ	WB	100 μ g/100 μ L
M204-7	Anti-RFP mAb-HRP-Direct	1G9	Mouse IgG2b κ	WB	100 μ L

Clone 1G9 is recommended for WB. High sensitivity to detect RFP.

Applications: WB: 1 μ g/mL (M204-3)
 1:5,000 (M204-7)

Specificity: Reacts with DsRed, mRFP1, mCherry, mOrange, and mPlum.

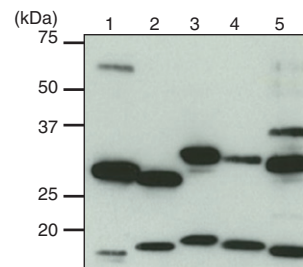
■ Western blotting (M204-3)



Sample
 Lane 1, 4, 7: DsRed 10 ng
 Lane 2, 5, 8: DsRed 2 ng
 Lane 3, 6, 9: DsRed 0.4 ng

WB
 First antibody :
 Lane 1, 2, 3: M204-3 1 μ g/mL
 Lane 4, 5, 6: Competitor 1 μ g/mL
 Lane 7, 8, 9: MBL's polyclonal antibody (PM005) 1:1,000

■ Western blotting (M204-3)



Lane 1: DsRed
 Lane 2: mRFP1*
 Lane 3: mCherry*
 Lane 4: mOrange*
 Lane 5: mPlum*

*Samples were provided by RIKEN.

Reactivity of Anti-RFP and RFP variants

	DsRed(tetramer)	mRFP1	mCherry	mOrange	mPlum	mStrawberry	mBanana	mRaspberry
PM005 (polyclonal)	○	○	○	○	○	○	N.T.	N.T.
M155-3 (8D6)	○	○	○	○	○	○	N.T.	N.T.
M165-3 (3G5)	○	○	○	○	○	○	N.T.	N.T.
M204-3 (1G9)	○	○	○	○	○	○	N.T.	N.T.
M208-3 (1G9, 3G5 (mixed))	○	○	○	○	○	○	N.T.	N.T.

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

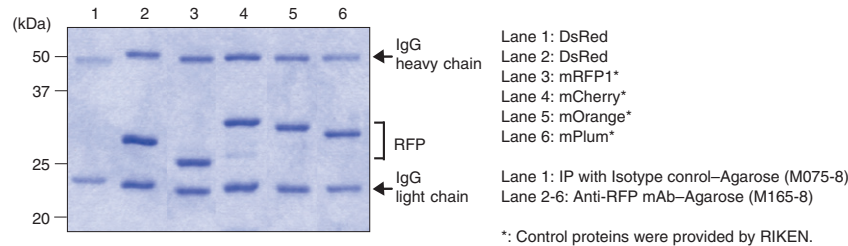
Code No.	Description	Clone	Isotype	Applications	Size
M165-3	Anti-RFP mAb	3G5	Mouse IgG1κ	IP, FCM, IC	100 μg/100 μL
M165-8	Anti-RFP mAb-Agarose Agarose	3G5	Mouse IgG1κ	IP	Gel: 200 μL
M165-11	Anti-RFP mAb-Magnetic Beads Smart-IP	3G5	Mouse IgG1κ	IP	20 tests (Slurry: 1 mL)

Excellent performance in IP, even the single RFP variant.

Applications: IP: 5 μg/sample (M165-3)
20 μL/sample (M165-8)
50 μL/sample (M165-11)
IC: 1 μg/mL (M165-3)
FCM: 0.1-1 μg/mL (M165-3)

Specificity: Reacts with DsRed, mRFP1, mCherry, mOrange, and mPlum.

Immunoprecipitation (M165-8)

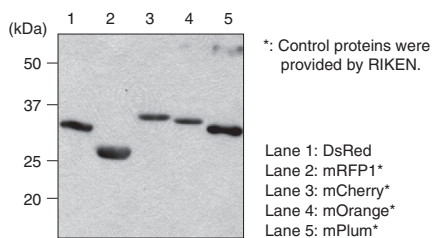


Code No.	Description	Clone	Isotype	Applications	Size
M155-3	Anti-RFP mAb	8D6	Mouse IgG1κ	WB, IC	100 μg/100 μL

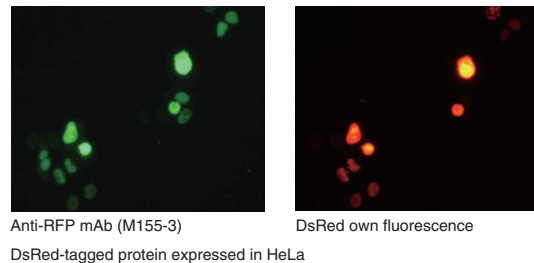
Applications: WB: 1 μg/mL
IC: 10 μg/mL

Specificity: Reacts with DsRed, mRFP1, mCherry, mOrange, and mPlum.

Western blotting



Immunocytochemistry

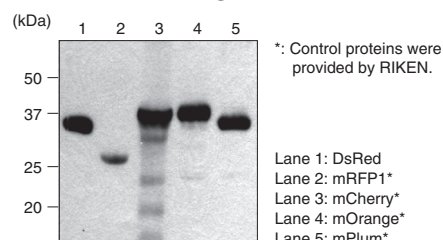


Code No.	Description	Clone	Isotype	Applications	Size
PM005	Anti-RFP pAb	Polyclonal	Rabbit IgG	WB, IC, IH*	100 μL
PM005-7	Anti-RFP pAb-HRP-Direct HRP-Direct	Polyclonal	Rabbit IgG	WB	100 μL

Applications: WB: 1:1,000 (PM005)
1:1,000-1:4,000 (PM005-7)
IC: 1:500 (PM005)

Specificity: Reacts with DsRed, mRFP, mCherry, mOrange, mPlum, mStrawberry, and tdTomato.

Western blotting (PM005)

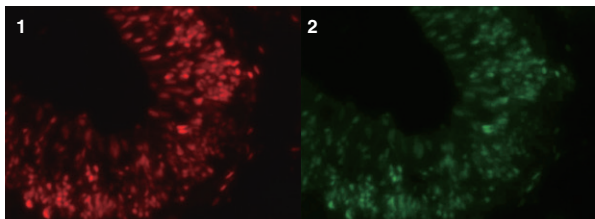


Amalgam Fluorescent Protein Antibodies

© Original Fluorescent Proteins

Code No.	Description	Clone	Isotype	Applications	Size	Cross-reactivity by WB
M102-3M	Anti-monomeric Azami-Green1 mAb	2F11	Mouse IgG1 κ	WB	100 μ g/100 μ L	mAG1
PM052M	Anti-monomeric Azami-Green1 pAb	Polyclonal	Rabbit Ig(aff.)	WB, IP, IC, IH	100 μ L	mAG1
PM011M	Anti-Azami-Green pAb	Polyclonal	Rabbit IgG	WB	100 μ L	AG, mAG1
M106-3M	Anti-Kaede mAb	2F4	Mouse IgG1 κ	IP	100 μ g/100 μ L	
M125-3M	Anti-Kaede mAb	3B1	Mouse IgG1	WB	100 μ g/100 μ L	Kaede
PM012M	Anti-Kaede pAb	Polyclonal	Rabbit Ig(aff.)	WB	100 μ L	Kaede
M126-3M	Anti-monomeric Keima-Red mAb	2F7	Mouse IgG2a	WB	100 μ g/100 μ L	mKeima-Red
M182-3M	Anti-Keima-Red mAb	1C3	Mouse IgG1 κ	WB	100 μ g/100 μ L	mKeima-Red, dKeima-Red, dKeima570
M128-3M	Anti-Kikume Green-Red mAb	5B3	Mouse IgG2b	WB	100 μ g/100 μ L	KikGR, mKikGR
M104-3M	Anti-monomeric Kusabira-Orange1 mAb	1H7	Mouse IgG1 κ	WB	100 μ g/100 μ L	mKO1, mKO2, mKG, mKG-O, mKO κ
M168-3M	Anti-monomeric Kusabira-Orange2 mAb	3B3	Mouse IgG1 κ	WB, IP, IC, IH	100 μ g/100 μ L	mKO2, mKG, mKG-O, mKO κ
PM051M	Anti-monomeric Kusabira-Orange2 pAb	Polyclonal	Rabbit Ig(aff.)	WB, IP, IC, IH	100 μ L	KO1, mKO1, mKO2, mKG, mKG-O, mKO κ
M116-3M	Anti-Midoriishi-Cyan mAb	2C1	Mouse IgG2b	IP	100 μ g/100 μ L	
M130-3M	Anti-Midoriishi-Cyan mAb	5B7	Mouse IgG1	WB	100 μ g/100 μ L	MiCy, mMicy
M148-3M	Anti-monomeric Kusabira-Green <i>N</i> -terminal Fragment mAb	1E6	Mouse IgG2b	WB	100 μ g/100 μ L	mKO1, mKO2, mKG
M149-3M	Anti-monomeric Kusabira-Green <i>C</i> -terminal Fragment mAb	21B10	Mouse IgG2a	WB	100 μ g/100 μ L	mKO2, mKG

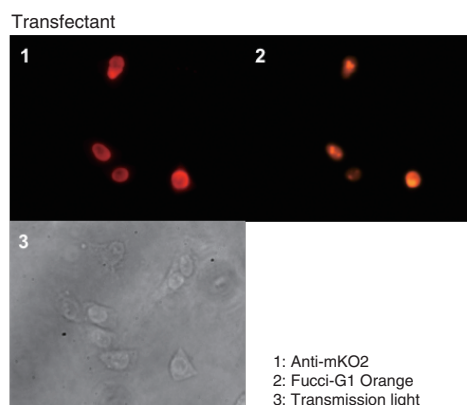
■ Immunohistochemistry (PM052M)



Immunohistochemical detection of mAG1 on frozen section of B6. Cg-Tg (Fucci) 504Bsi mouse embryonic brain (E13) with PM052M (1) and Fucci-S/G₂/M Green own fluorescence (2).

Cg-Tg (Fucci) 596Bsi mouse was provided by RIKEN.

■ Immunocytochemistry (PM051M)



1: Anti-mKO2
2: Fucci-G1 Orange
3: Transmission light

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

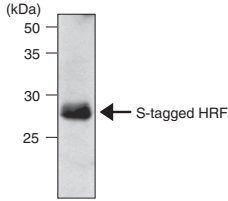
S-tag

Code No.	Description	Clone	Isotype	Applications	Size
PM021	Anti-S-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP	100 µL

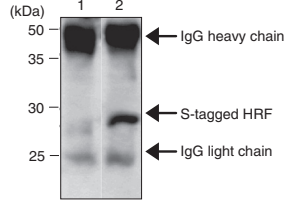
Applications: WB: 1:1,000 (PM021)
IP: 5 µL/sample (PM021)

Specificity: Proteins fused with S-tag, KETAAKFERQHIDS, the peptide sequence derived from Pancreatic RNase A.

Western blotting (PM021) Immunoprecipitation (PM021)



Sample: S-tagged HRF



Lane 1: IP with Normal Rabbit IgG (PM035)
Lane 2: IP with Anti-S-tag pAb (PM021)
Sample: S-tagged HRF
Immunoblotted with PM021

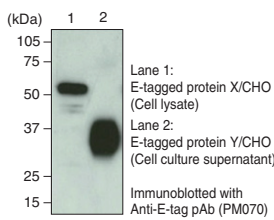
E-tag

Code No.	Description	Clone	Isotype	Applications	Size
PM070	Anti-E-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP	100 µL

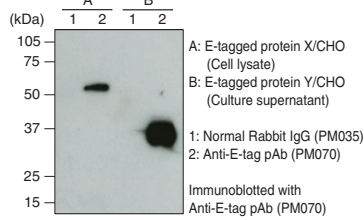
Applications: WB: 1:1,000
IP: 2 µL/sample

Specificity: Proteins fused with E-tag, GAPVYPDPLEPR.

Western blotting Immunoprecipitation



Lane 1: E-tagged protein X/CHO (Cell lysate)
Lane 2: E-tagged protein Y/CHO (Cell culture supernatant)
Immunoblotted with Anti-E-tag pAb (PM070)



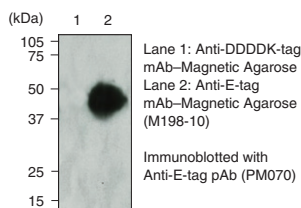
A: E-tagged protein X/CHO (Cell lysate)
B: E-tagged protein Y/CHO (Culture supernatant)
1: Normal Rabbit IgG (PM035)
2: Anti-E-tag pAb (PM070)
Immunoblotted with Anti-E-tag pAb (PM070)

Code No.	Description	Clone	Isotype	Applications	Size
M198-10	Anti-E-tag mAb-Magnetic Agarose	21D11	Mouse IgG2ak	IP	20 tests (Gel: 200 µL)

Applications: IP: 10 µL/sample (M198-10)

Specificity: Proteins fused with E-tag, GAPVYPDPLEPR.

Immunoprecipitation (M198-10)



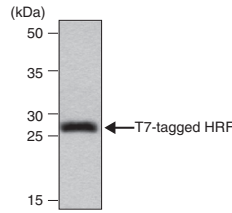
Lane 1: Anti-DDDDK-tag mAb-Magnetic Agarose
Lane 2: Anti-E-tag mAb-Magnetic Agarose (M198-10)
Immunoblotted with Anti-E-tag pAb (PM070)

T7-tag

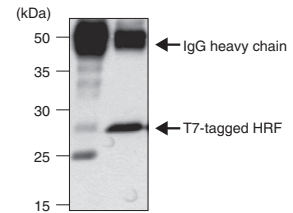
Code No.	Description	Clone	Isotype	Applications	Size
PM022	Anti-T7-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP, ChIP*	100 µL
PM022-8	Anti-T7-tag pAb-Agarose	Polyclonal	Rabbit Ig (aff.)	IP, Purification, RNA pull-down*	Gel: 200 µL

Applications: WB: 1:1,000 (PM022)
IP: 5 µL/sample (PM022)
20 µL/sample (PM022-8)
Specificity: Proteins fused with T7-tag, MASMTGGQQMG, the peptide sequence derived from a capsid protein of T7 bacteriophage.

Western blotting (PM022) Immunoprecipitation (PM022)



Sample: T7-tagged HRF



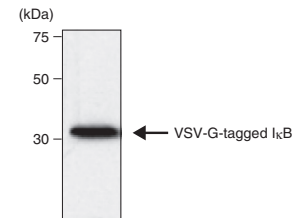
Lane 1: IP with Normal Rabbit IgG (PM035)
Lane 2: IP with Anti-T7-tag pAb (PM022)
Sample: T7-tagged HRF

VSV-G-tag

Code No.	Description	Clone	Isotype	Applications	Size
563	Anti-VSV-G-tag pAb	Polyclonal	Rabbit IgG	WB, IC, IH*	100 µL
563-8	Anti-VSV-G-tag pAb-Agarose	Polyclonal	Rabbit Ig (aff.)	IP	Gel: 200 µL

Applications: WB: 1:100 (563)
IP: 20 µL/sample (563-8)
IC: 1:100 (563)
Specificity: Reacts with VSV-G-tag, YTDIEMNRLGK.

Western blotting (563)

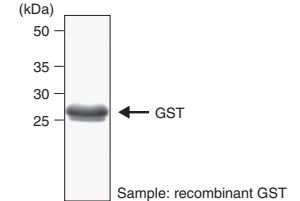


GST (Glutathione-S-transferase)

Code No.	Description	Clone	Isotype	Applications	Size
PM013	Anti-GST-tag pAb	Polyclonal	Rabbit IgG	WB, IP	100 µL
PM013-7	HRP-Direct Anti-GST-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB	50 µL

Applications: WB: 1:1,000 (PM013)
1:5,000 (PM013-7)
IP: 5 µL/sample (PM013)
Specificity: Proteins fused with GST-tag.

Western blotting (PM013)



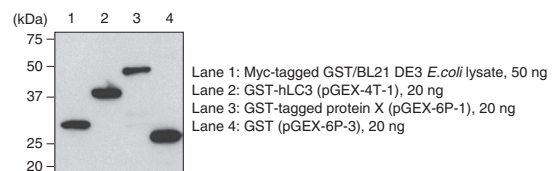
Sample: recombinant GST

Code No.	Description	Clone	Isotype	Applications	Size
M209-3	Anti-GST-tag mAb	GT5	Mouse IgG1κ	WB, IP	100 µg/100 µL
M209-7	Anti-GST-tag mAb-HRP-Direct	GT5	Mouse IgG1κ	WB	50 µL

Clone GT5 is recommended for Western blotting.

Applications: WB: 1 µg/mL
IP: 2.5 µg/sample

Western blotting (M209-3)

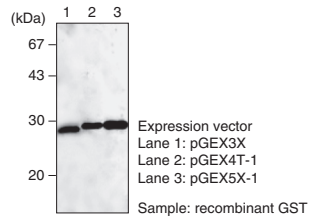


Specificity: Proteins fused with GST-tag.

Code No.	Description	Clone	Isotype	Applications	Size
M071-3	Anti-GST-tag mAb	3B2	Mouse IgG2bx	WB	100 µg/ 100 µL

Application: WB: 1 µg/mL
Specificity: Proteins fused with GST-tag.

Western blotting



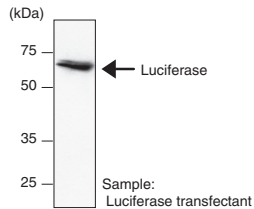
Luciferase

Code No.	Description	Clone	Isotype	Applications	Size
PM016	Anti-Luciferase pAb	Polyclonal	Rabbit IgG	WB, IP, IC, IH	100 µL

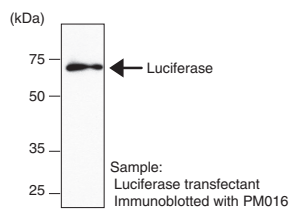
Applications: WB: 1:1,000
IP: 5 µL/sample
IC: 1:200
IH: 1:200

Specificity: Reacts with firefly luciferase but not with *Renilla* luciferase.

Western blotting



Immunoprecipitation

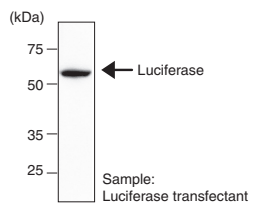


Code No.	Description	Clone	Isotype	Applications	Size
M095-3	Anti-Luciferase mAb	2D4	Mouse IgG1	WB, IP	100 µg/ 100 µL

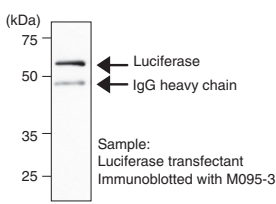
Applications: WB: 1 µg/mL
IP: 5 µg/sample

Specificity: Reacts with firefly luciferase but not with *Renilla* luciferase.

Western blotting



Immunoprecipitation



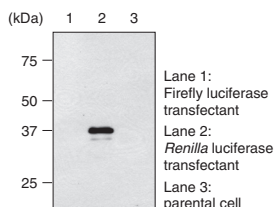
Renilla Luciferase

Code No.	Description	Clone	Isotype	Applications	Size
PM047	Anti-Renilla Luciferase pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP, IC	100 µL

Applications: WB: 1:1,000
IP: 2 µL/sample
IC: 1:100-1:200
IC (Paraffin embedded sections): 1:1,000
(Heat treatment is necessary.)

Specificity: Reacts with *Renilla* luciferase but not with firefly luciferase.

Western blotting



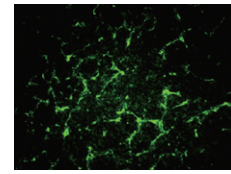
β-galactosidase

Code No.	Description	Clone	Isotype	Applications	Size
PM049	Anti-β-galactosidase pAb	Polyclonal	Rabbit IgG	WB, IP, IC, IH	100 µL

Applications: WB: 1:1,000
IP: 1 µL/sample
IC: 1:100
IH: 1:200

Specificity: β-Galactosidase fusion proteins.

Immunohistochemistry (frozen section)



Frozen section of Lewis lung carcinoma xenograft

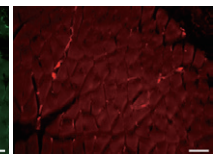
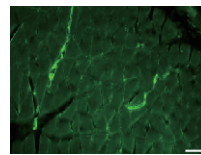
This data was kindly provided by Dr. Takashi Minami. (Laboratory for Systems Biology and Medicine at RCAST, University of Tokyo)

Code No.	Description	Clone	Isotype	Applications	Size
M203-3	Anti-β-galactosidase mAb	6F4	Rat IgG2ak	WB, IP, IC, IH	100 µg/ 100 µL

Applications: WB: 0.1 µg/mL
IP: 2 µg/sample
IC: 2 µg/mL
IH: 5 µg/mL
(frozen section)

Specificity: β-Galactosidase fusion proteins.

Immunohistochemistry (frozen section)



Tissue: Mouse skeletal muscle (β-galactosidase knock-in)

Green: Anti-β-galactosidase mAb (M203-3)
Red: Anti-mEndoglin pAb (R&D Systems)
Blue: DAPI

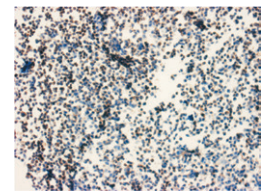
Data were kindly provided by Ms. Chihito Makihara and Dr. Takashi Minami. (Division of Vascular Biology, RCAST, The University of Tokyo)

Code No.	Description	Clone	Isotype	Applications	Size
M094-3	Anti-β-galactosidase mAb	5A3	Mouse IgG1	WB, IP, FCM*, IC, IH	100 µg/ 100 µL

Applications: WB: 1 µg/mL
IP: 1 µg/sample
IC: 5 µg/mL
IH: 10 µg/mL

Specificity: β-Galactosidase fusion proteins.

Immunocytochemistry



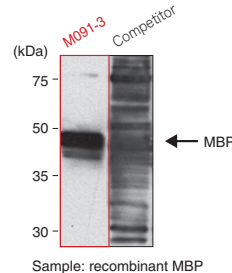
Immunoperoxidase staining of β-galactosidase expressed in 293T

MBP (Maltose Binding Protein)

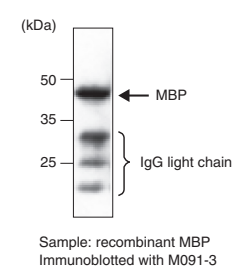
Code No.	Description	Clone	Isotype	Applications	Size
M091-3	Anti-MBP (Maltose Binding Protein) mAb	1G12	Mouse IgG3	WB, IP	100 µg/ 100 µL

Applications: WB: 1 µg/mL
IP: 2 µg/sample
Specificity: Proteins fused with MBP.

Western blotting



Immunoprecipitation



DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

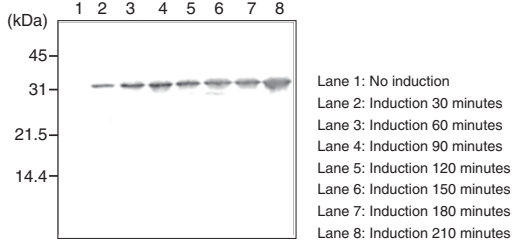
DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAOs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Trx (Thioredoxin)

Code No.	Description	Clone	Isotype	Applications	Size
M013-3	Anti-Thioredoxin (Trx-tag) mAb	2C9	Mouse IgG1 κ	WB	100 μ g/ 100 μ L

Application: WB: 1 μ g/mL
Specificity: Trx and Trx-tag fusion proteins.

Western blotting



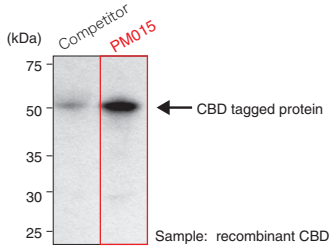
Sample: Thioredoxin fusion protein expressed cell lysate

CBD (Chitin Binding Domain)

Code No.	Description	Clone	Isotype	Applications	Size
PM015	Anti-CBD (Chitin Binding Domain) pAb	Polyclonal	Rabbit IgG	WB	100 μ L

Application: WB: 1:1,000
Specificity: Proteins fused with CBD-tag.
TTNPGVSAWQVNTAYTAGQLVIYNGKTYK.

Western blotting

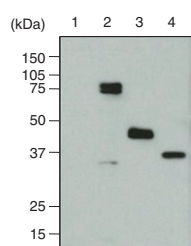


CBP (Calmodulin Binding Protein)

Code No.	Description	Clone	Isotype	Applications	Size
PM071	Anti-Calmodulin Binding Protein-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB, IP	100 μ L

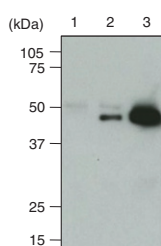
Application: WB: 1:1,000
IP: 2-5 μ L/sample
Specificity: Proteins fused with CBD-tag.
TTNPGVSAWQVNTAYTAGQLVIYNGKTYK.

Western blotting



Lane 1: Parental cell (293T)
Lane 2: N-terminal CBP-tagged protein X/293T
Lane 3: C-terminal CBP-tagged protein Y/293T
Lane 4: C-terminal CBP-tagged protein Z/293T

Immunoprecipitation



Sample: C-terminal CBP-tagged protein Y/293T
Lane 1: Normal rabbit IgG (PM035)
Lane 2: Anti-Calmodulin Binding Protein-tag pAb (PM071, 2 μ L/sample)
Lane 3: Anti-Calmodulin Binding Protein-tag pAb (PM071, 5 μ L/sample)
Immunoblotted with PM071

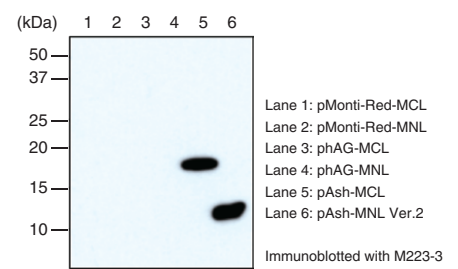
Ash-tag

Code No.	Description	Clone	Isotype	Applications	Size
M223-3	Anti-Ash-tag mAb	FLP1C15-2	Mouse IgG1	WB	100 μ g/ 100 μ L

Application:

WB: 5 μ g/mL
*Reacts with the code AM8011M and code AM8012M but not with code SI-8010, SI-8011, SI-8020, and SI-8021.

Western blotting

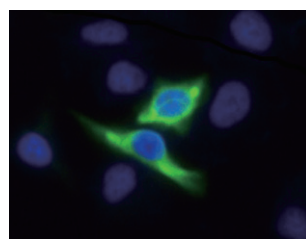


Strep-tagII

Code No.	Description	Clone	Isotype	Applications	Size
M211-3	Anti-Strep-tag II mAb	4F1	Mouse IgG2a κ	WB, IP, IC	100 μ g/ 100 μ L

Applications:
WB: 1 μ g/mL
IP: 2 μ g/sample
IC: 1 μ g/mL
Specificity:
Proteins fused with Strep-tag II, WSHPPQFEK.

Immunocytochemistry



Cells: Strep-tagged Calnexin/HeLa
Green: M211-3
Blue: DAPI

Digoxigenin (DIG) , FITC

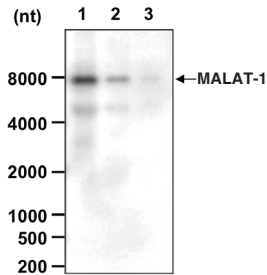
Antibodies for labeled nucleic acid probe detection.

Digoxigenin (DIG) and fluorescein like FITC are haptens that can be easily conjugated or integrated into biomolecules such as oligonucleotides and proteins.

These haptens are detected by specific antibodies in wide variety of applications. MBL's monoclonal antibodies against DIG and FITC are proprietary our original clones with high affinity and specificity. They can be used for non-radioactive immunoassays, Northern/Southern blot analysis, and *in situ* hybridization to detect DIG or FITC integrated DNA/RNA probes.

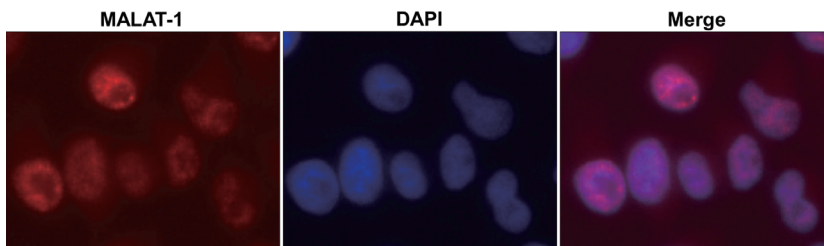
Anti-Digoxigenin (DIG) mAb (M227-3)

Northern blotting



Sample: Total RNA extracted from HEK293T cells
 Probe: DIG-labeled MALAT-1 ncRNA (RefSeq ID: NR_002819.3, region 6641-7113)
 Antibody: M227-3, 1 µg/mL
 Reagent: DIG Wash and Block Buffer Set (Sigma-Aldrich; code no. 11585762001)
 Lane 1: 500 ng of total RNA
 Lane 2: 100 ng of total RNA
 Lane 3: 20 ng of total RNA

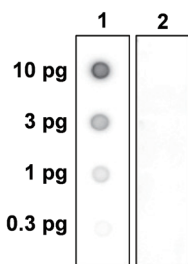
RNA Fluorescence *in situ* Hybridization



Cells: HeLa, Probe: MALAT-1 ncRNA (RefSeq ID: NR_002819.3, region 6641-7113)
 Antibody: M227-3, 1 µg/mL

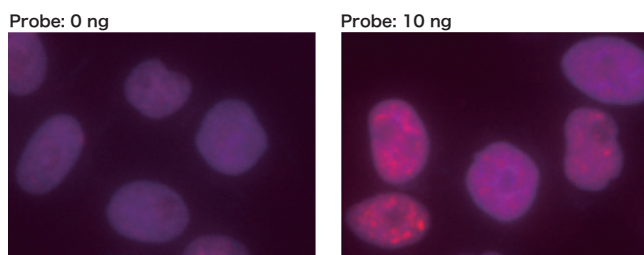
Anti-FITC mAb (M228-3)

Dot blotting



Sample: FITC-labeled RNA synthesized by *in vitro* transcription from *lacZ*-encoding cDNA (RefSeq ID: NC_007779.1, region 363130-364149)
 <Immunoblot>
 Lane 1: M228-3
 Lane 2: Isotype control (M075-3)

RNA Fluorescence *in situ* Hybridization



Cells: HeLa,
 Probe: FITC-labeled MALAT-1 ncRNA (RefSeq ID: NR_002819.3, region 6641-7113)
 Antibody: M228-3, 0.5 µg/mL
 Red: MALAT-1, Blue: DAPI

Code No.	Description	Clone	Isotype	Applications	Size
M227-3	Anti-Digoxigenin (DIG) mAb	8-10	Mouse IgG1κ	WB, IP, ELISA, DB, NB, RNA FISH	100 µg/100 µL
M228-3	Anti-FITC mAb	47-11	Mouse IgG1κ	WB, IP, ELISA, DB, NB, RNA FISH	100 µg/100 µL

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

HRP-Direct

- Save time and get clear data with MBL's HRP-Direct series.
- No more secondary antibodies for Western blotting!

"HRP-Direct series" is a series of epitope tag antibodies labeled directly with HRP.

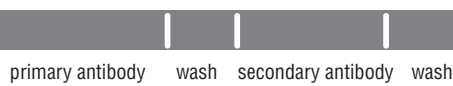
MBL has succeeded to develop the HRP labeled antibodies with higher sensitivity and lower background.

Quick

30 min for Western blotting.

Conventional method

2.5 hrs



Save 1/2 time!

Save antibodies

No need of secondary antibody

HRP-Direct(Without shaking)

1 hr 15 min



Save 3/4 time!

Save time

No need of secondary antibody

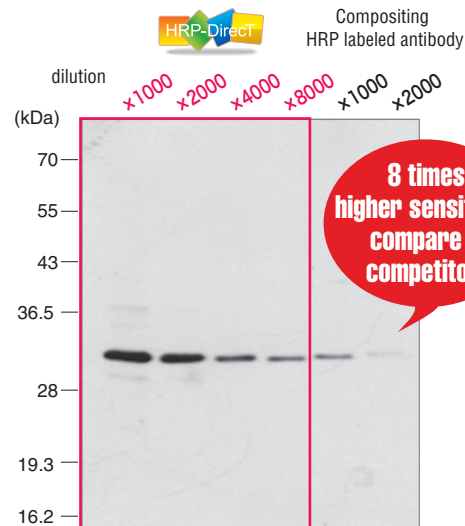
HRP-Direct(With shaking)

45 min



High sensitivity

Can get high sensitivity and save antibody!



Sample: Myc-tagged protein in 293T, 1×10^5 cells/lane

Clear

No cross-reactivity with antibodies used for immunoprecipitation eliminating their heavy and light chain bands in the blots.

Recommended especially when the band size of the target protein overlaps with either heavy chain or light chain.

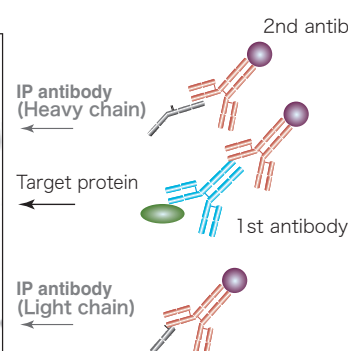
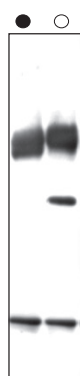
Immunoprecipitation (IP)



Western blotting

Conventional method

Gets the heavy chain or light chain bands derived from IP antibody.

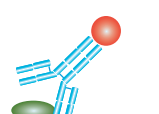


HRP-Direct

No heavy chain or light chain bands derived from IP antibody.

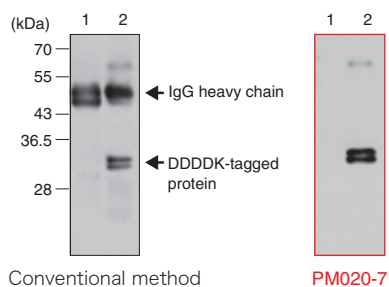


HRP-Direct



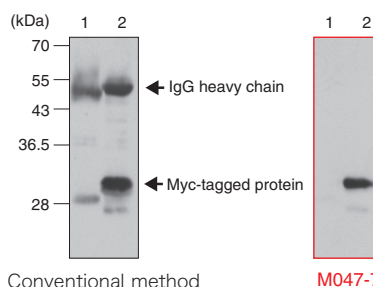
IP antibody
 ● Negative control
 ○ Anti-Tag antibody

■ Anti-DDDDK-tag pAb-HRP-Direct (PM020-7)



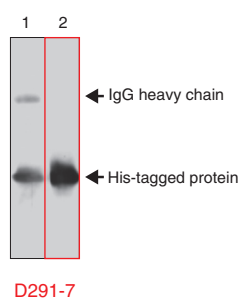
IP Antibodies:
Lane 1: Normal Rabbit IgG-Agarose
Lane 2: Anti-DDDDK-tag-Agarose

■ Anti-Myc-tag mAb-HRP-Direct (M047-7)



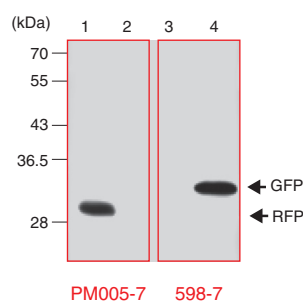
IP Antibodies:
Lane 1: Isotype control-Agarose
Lane 2: Anti-Myc-tag-Agarose

■ Anti-His-tag mAb-HRP-Direct (D291-7)



IP Antibody: Anti-His-tag-Agarose
Lane 1: Conventional method
Lane 2: Anti-His-tag mAb-HRP-Direct

■ Anti-GFP pAb-HRP-Direct (598-7) Anti-RFP pAb-HRP-Direct (PM005-7)



Sample:
Lane 1, 3: mRFP in 293T
Lane 2, 4: GFP in 293T
WB:
Lane 1, 2: Anti-RFP pAb-HRP-Direct
Lane 3, 4: Anti-GFP pAb-HRP-Direct

HRP-Direct series

Code No.	Description	Clone	Isotype	Applications	Size
PM020-7	Anti-DDDDK-tag pAb-HRP-Direct	Polyclonal	Rabbit Ig (aff.)	WB	100 µL
M185-7	Anti-DDDDK-tag mAb-HRP-Direct	FLA-1	Mouse IgG2aκ	WB	200 µL
M180-7	Anti-HA-tag mAb-HRP-Direct	TANA2	Mouse IgG2bκ	WB	100 µL
D291-7	Anti-His-tag mAb-HRP-Direct	OGHis	Mouse IgG2aκ	WB	50 µL
M192-7	Anti-Myc-tag mAb-HRP-Direct	My3	Mouse IgG2bκ	WB	100 µL
M047-7	Anti-Myc-tag mAb-HRP-Direct	PL14	Mouse IgG1κ	WB	100 µL
M215-7	Anti-V5-tag mAb-HRP-Direct	OZA3	Mouse IgG2bκ	WB	100 µL
598-7	Anti-GFP pAb-HRP-Direct	Polyclonal	Rabbit IgG	WB	100 µL
M204-7	Anti-RFP mAb-HRP-Direct	1G9	Mouse IgG2bκ	WB	100 µL
PM005-7	Anti-RFP pAb-HRP-Direct	Polyclonal	Rabbit IgG	WB	100 µL
PM013-7	Anti-GST-tag pAb-HRP-Direct	Polyclonal	Rabbit Ig (aff.)	WB	50 µL
M209-7	Anti-GST-tag mAb-HRP-Direct	GT5	Mouse IgG1κ	WB	50 µL

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Tag antibody-conjugated magnetic beads or magnetic agarose

© **Smart-IP** is a series of tag-antibodies conjugated with magnetic beads or magnetic agarose.

Quick

Because of using magnetic separation, no need of centrifugal separation.

High yield

Magnetic beads are tightly collected on the side of tubes so that washing does not affect the yield quantum.

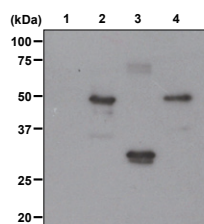


*Sold separately Code No. 3190

Type of beads	Applications	Size of beads	Schematic diagram of beads	Product images	Product features	Recommended to who...
Magnetic Agarose	IP	About 50 μm	<p>Agarose beads Magnetic particles</p>		<ul style="list-style-type: none"> -Large amount of IgG/per beads -Less sample loss because of the magnet -Easy to see the gel -Magnetic rack will be needed 	<ul style="list-style-type: none"> ★ Consider the volume of yield ★ Want an easier procedure
Magnetic beads	IP Purification	About 1.5 μm			<ul style="list-style-type: none"> -Small amount of IgG/per beads -Almost no loss because of the magnet -Easy to disperse and can be used for screening -Easy to see the beads -Magnetic rack will be needed 	<ul style="list-style-type: none"> ★ Need smaller elution volume ★ Want an easier procedure
Agarose	IP Purification	About 100 μm			<ul style="list-style-type: none"> -Large amount of IgG/per beads -Might lose during the wash -Hard to see the gel -No need of magnetic rack 	<ul style="list-style-type: none"> ★ Consider the volume of yield ★ Want to reduce the cost

Example for the *Smart-IP* by Immunoprecipitation

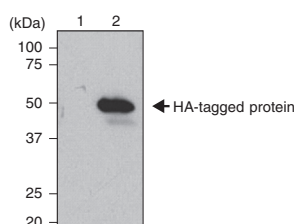
■ Anti-DDDDK-tag mAb (M185-10R)



Lane 1: 293T cell lysate
Lane 2: N-terminal DDDDK-tagged protein X (1 μg) in 293T lysate
Lane 3: Internal DDDDK-tagged GFP (1 μg) in 293T lysate
Lane 4: C-terminal DDDDK-tagged protein X (1 μg) in 293T lysate

Immunoblotted with anti-DDDDK-tag mAb-HRP-Direct (M185-7)

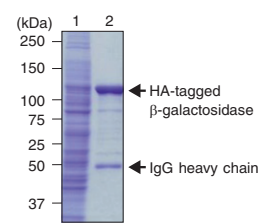
■ Anti-HA-tag mAb (M180-10)



Lane 1: 293T
Lane 2: HA-tagged protein expressed in 293T

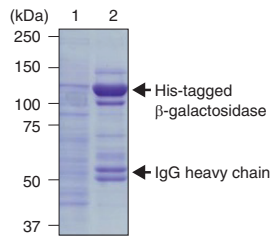
Immunoblotted with M180-7

■ Anti-HA-tag mAb (M132-11)



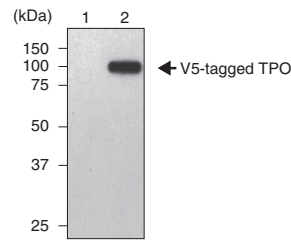
Sample: HA-tagged β -galactosidase/293T
Lane 1: Input (10 μL /lane)
Lane 2: Post-IP beads of Anti-HA-tag mAb (M132-11)

■ Anti-His-tag mAb (D291-11)



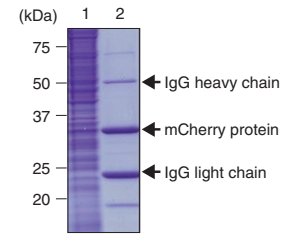
Sample: HA-tagged β -galactosidase/293T
Lane 1: Input (5 μ L/lane)
Lane 2: Post-IP beads of Anti-HA-tag mAb (D291-11)

■ Anti-V5-tag mAb (M167-10)



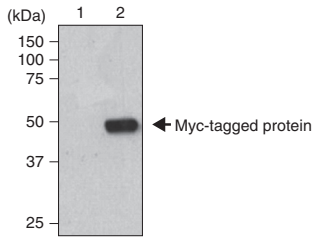
Lane 1: Insect medium
Lane 2: V5-tagged TPO in insect medium
Immunoblotted with PM003-7

■ Anti-RFP mAb (M165-11)



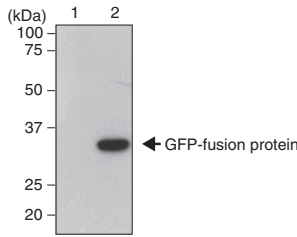
Sample: 293T cell lysate from 3×10^6 cells + mCherry protein* 10 μ g
Lane 1: Input (10 μ L/lane)
Lane 2: Post-IP beads of Anti-RFP mAb (D291-11)
*Sample was provided by RIKEN.

■ Anti-Myc-tag mAb (M047-10)



Lane 1: 293T
Lane 2: Myc-tagged protein expressed in 293T
Immunoblotted with M192-7

■ Anti-GFP mAb (D153-10)



Lane 1: 293T
Lane 2: GFP-fusion protein expressed in 293T
Immunoblotted with 598-7

Smart-IP Tag antibody-conjugated magnetic beads or magnetic agarose

Code No.	Description	Clone	Isotype	Applications	Size
Magnetic Agarose					
M185-10R	Anti-DDDDK-tag mAb-Magnetic Agarose	FLA-1GS	Mouse IgG2a κ	IP	100 tests (Slurry: 2 mL)
M132-10	Anti-HA-tag mAb-Magnetic Agarose	5D8	Mouse IgG1 κ	IP	20 tests (Gel: 200 μ L)
M180-10	Anti-HA-tag mAb-Magnetic Agarose	TANA2	Mouse IgG2b κ	IP	20 tests (Slurry: 400 μ L)
D291-10	Anti-His-tag mAb-Magnetic Agarose	OGHis	Mouse IgG2a κ	IP	20 tests (Gel: 200 μ L)
M047-10	Anti-Myc-tag mAb-Magnetic Agarose	PL14	Mouse IgG1 κ	IP	20 tests (Gel: 200 μ L)
M167-10	Anti-V5-tag mAb-Magnetic Agarose	1H6	Mouse IgG2a κ	IP	20 tests (Gel: 200 μ L)
D153-10	Anti-GFP mAb-Magnetic Agarose	RQ2	Rat IgG2a κ	IP	20 tests (Gel: 200 μ L)
M198-10	Anti-E-tag mAb-Magnetic Agarose	21D11	Mouse IgG2a κ	IP	20 tests (Gel: 200 μ L)
Magnetic Beads					
M185-11R	Anti-DDDDK-tag mAb-Magnetic Beads	FLA-1GS	Mouse IgG2a κ	IP, Purification	20 tests (Slurry: 1 mL)
M132-11	Anti-HA-tag mAb-Magnetic Beads	5D8	Mouse IgG1 κ	IP, Purification	20 tests (Slurry: 1 mL)
M180-11	Anti-HA-tag mAb-Magnetic Beads	TANA2	Mouse IgG2b κ	IP, Purification	20 tests (Slurry: 1 mL)
D291-11	Anti-His-tag mAb-Magnetic Beads	OGHis	Mouse IgG2a κ	IP, Purification	20 tests (Slurry: 1 mL)
M047-11	Anti-Myc-tag mAb-Magnetic Beads	PL14	Mouse IgG1 κ	IP, Purification	20 tests (Slurry: 1 mL)
M167-11	Anti-V5-tag mAb-Magnetic Beads	1H6	Mouse IgG2a κ	IP, Purification	20 tests (Slurry: 1 mL)
M215-11	Anti-V5-tag mAb-Magnetic Beads	OZA3	Mouse IgG2b κ	IP, Purification	20 tests (Slurry: 1 mL)
D153-11	Anti-GFP (Green Fluorescent Protein) mAb-Magnetic Beads	RQ2	Rat IgG2a κ	IP, Purification	20 tests (Slurry: 1 mL)
M165-11	Anti-RFP mAb-Magnetic Beads	3G5	Mouse IgG1 κ	IP, Purification	20 tests (Slurry: 1 mL)
M075-11	Mouse IgG1 (isotype control)-Magnetic Beads	2E12	Mouse IgG1 κ	IP, Purification	20 tests (Slurry: 1 mL)
M076-11	Mouse IgG2a (isotype control)-Magnetic Beads	6H3	Mouse IgG2a κ	IP, Purification	20 tests (Slurry: 1 mL)
M077-11	Mouse IgG2b (isotype control)-Magnetic Beads	3D12	Mouse IgG2b κ	IP, Purification	20 tests (Slurry: 1 mL)
M081-11	Rat IgG2a (isotype control)-Magnetic Beads	2H3	Rat IgG2a κ	IP, Purification	20 tests (Slurry: 1 mL)
MJS002V2	Protein G-Magnetic Beads	-	-	IP	10 mL (1% Slurry)
Magnetic Rack					
3190	Magnetic Rack				1.5 mL x 8 tubes

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Purification Kit & Gel

PURIFICATION KIT

To purify target epitope-tagged proteins without any loss of protein activity and denature, all procedure during purification should be conducted under a neutral pH condition. Severe conditions such as acidic or alkaline elution can occasionally alter protein structures or biological functions of target proteins.

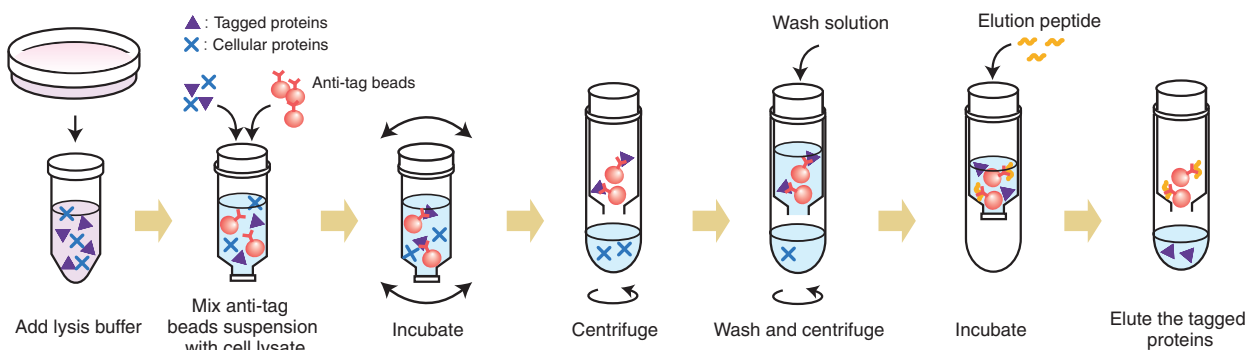
MBL's tagged Protein PURIFICATION KIT employs competitive polypeptides to elute target tagged proteins under a neutral pH for maintaining target protein function and conformation. Epitope tag specific antibodies in this kit are highly optimized for target recovery with high yield and purity from crude samples like cell lysates or culture supernatant of mammal transfectant cells.



*This product is a set of purification gel, elution peptide, wash buffer, and mini column.

- Recommended to who wants to purify from the small samples.
- Almost everything is in this kit to start. Easy to get ready.
- Perfect for pull-down assay.

Procedure Summary

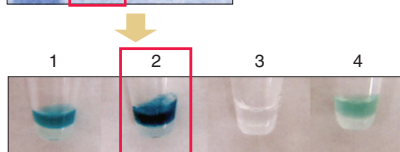
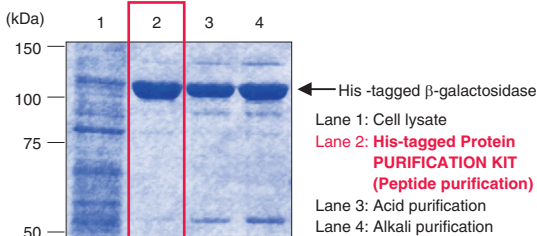


Purified in native conformations

Our purification procedure under a neutral pH condition enables maintaining target protein function and conformation. Useful/available for pull down assay as well to analyze co-immunoprecipitated proteins.

Purification and enzymatic activity of N-terminal His-tagged β -galactosidase

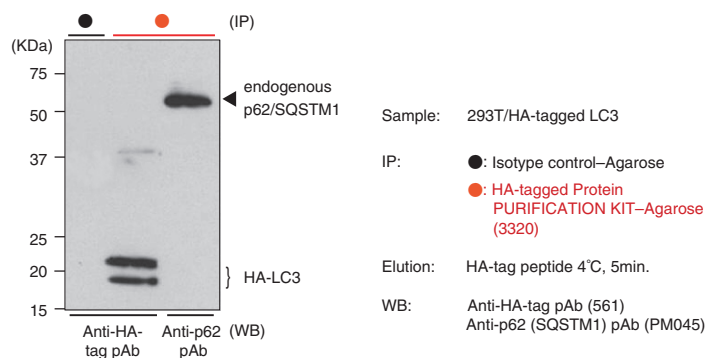
His-tagged Protein PURIFICATION KIT (Code No. 3310)



X-galstaining

Pull-down assay

HA-tagged Protein PURIFICATION KIT (Code No. 3320)



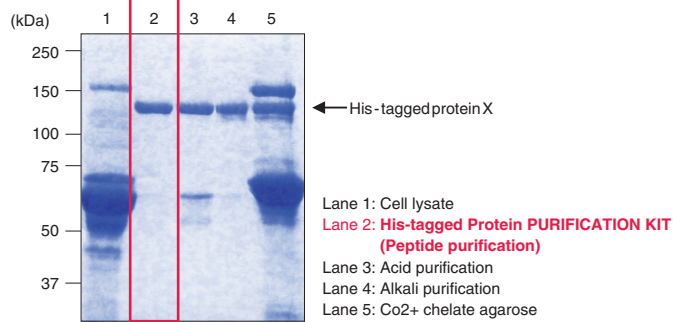
Interaction of p62/SQSTM1 with LC3 was confirmed by pull-down assay using the cell lysate of the HA-LC3 transfectant.

High purity

Able to recover high purity target tagged proteins by using our original proprietary antibodies that have superior affinity and specificity to the epitope tag.

■ Purification of C-terminal His-tagged protein X from culture supernatant

His-tagged Protein PURIFICATION KIT (Code No. 3310)



Wide variety of products

Wide range of purification kits for each tag-proteins.



PURIFICATION GEL with Elution Peptide

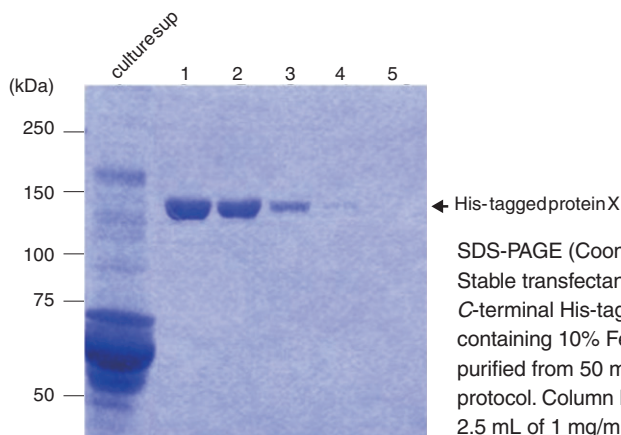


*This product is a set of purification gel and elution peptide.

◎ Recommended for the large scale of protein purification.

■ Purification of C-terminal His-tagged protein X from culture supernatant

His-tagged Protein PURIFICATION GEL with Elution Peptide (Code No. 3311)



SDS-PAGE (Coomassie Brilliant Blue Staining)
Stable transfectant of CHO (Chinese Hamster Ovary) cells expressing C-terminal His-tagged protein were cultured for 7 days in DMEM medium containing 10% Fetal bovine serum. C-terminal His-tagged protein was purified from 50 mL of cultured medium according to the preceding protocol. Column bed volume was 0.5 mL. Elution was carried out with 2.5 mL of 1 mg/mL His tag peptide. Each fraction was 0.5 mL.

DDDDK-tag	
HA-tag	
His-tag	
Myc-tag	
V5-tag	
mini-AID-tag	
Fluorescent Protein Antibodies	
Other Tag Antibodies	
HRP-Direct	
Smart-IP	
Purification Kit and Gel	
FAQs	
Isotype Control Antibodies	
Loading Control Antibodies	
Organelle Marker Antibodies	

PURIFICATION GEL

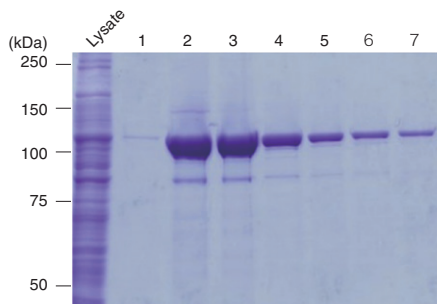


*This product consists of a purification gel only.

- ⊙ Recommended for the large scale of protein purification.
- ⊙ For who wants to prepare elution peptide by themselves.

■ Purification of N-terminal DDDDK-tagged β -galactosidase

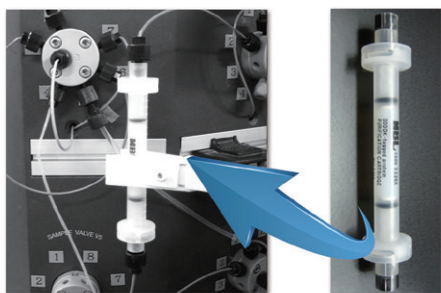
DDDDK-tagged Protein PURIFICATION GEL (Code No. 3328R)



SDS-PAGE (Coomassie Brilliant Blue Staining)

Human embryonic kidney cell (293T) were transfected with pcDNA-DDDDK-tagged β -galactosidase and cultured for 60 hours. Cells were then lysed in the Lysis buffer (10 mL/100-mm dish x5) and purified according to the preceding protocol. Column bed volume was 0.25 mL. Elution was carried out with 2 mL of 0.1 mg/mL DDDDK-tag peptide. Each fraction was 0.25 mL.

PURIFICATION CARTRIDGE

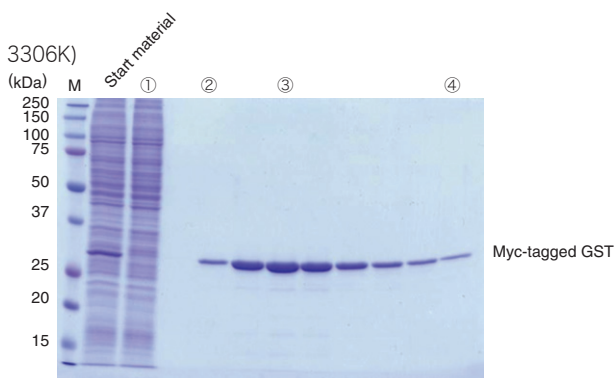
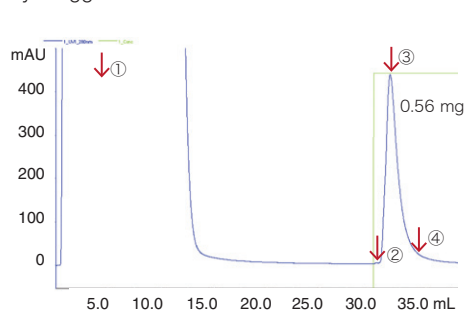


- ⊙ Ready-to-use-cartridge for the isolation of c-Myc-tagged protein
- ⊙ The cartridge can be used directly on automated ÄKTA or FPLC systems. (Cartridge is 1/16 inch female end)*

* Maximum working pressure: 0.3 MPa
* ÄKTA is a trade mark of GE Healthcare (Life Sciences).

■ Example of Purification Result

c-Myc-tagged Protein PURIFICATION CARTRIDGE (Code No. 3306K)



Column bed volume : 1 mL
Sample : c-Myc-tagged GST/293T (5×10^7 cells)
Cell lysis buffer : 10 mM Tris-HCl, 150 mM NaCl, 1% NP-40 (pH 7.5)
Wash buffer : 0.05% Tween/PBS (pH 7.2)
Elution buffer : 0.5 mg/ml c-Myc peptide in PBS
Flow rate : 0.75 mL/min
Chromatography system : ÄKTA explorer 10S (GE Healthcare)

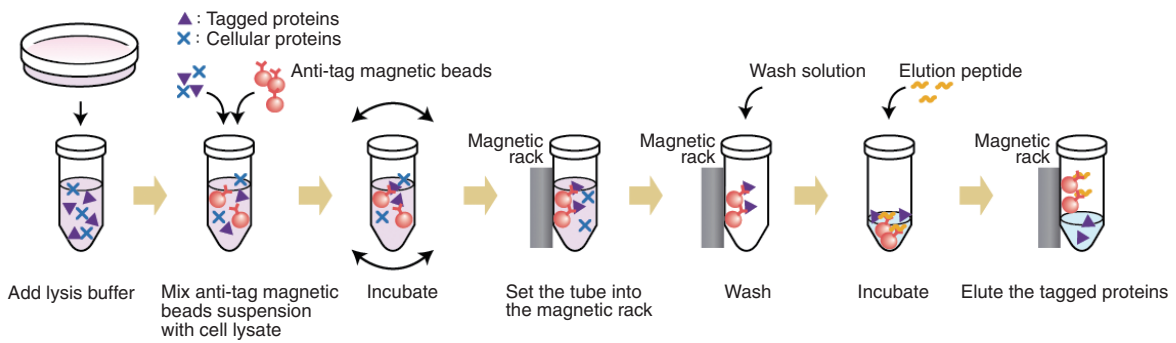
Tagged Protein Magnetic Purification Kits



- Used magnet for our popular purification kits.
- Magnetic conjugated antibodies, elution peptide, wash solutions are in package.
- Recommended for purifying small amount samples.
- Set of needed reagents.
- No need to centrifuge.
- High yield
- Maintaining target protein function and conformation

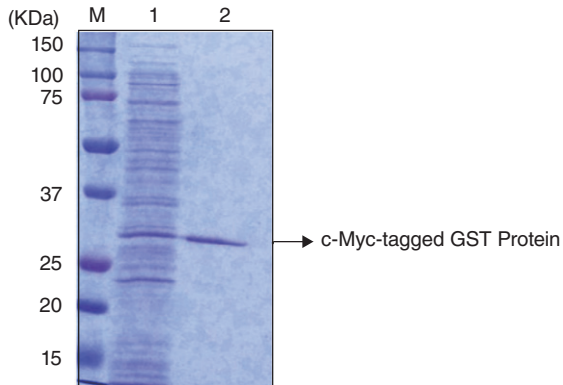
*Sold separately Code No. 3190

■ Procedure Summary



■ c-Myc-tagged GST protein purification

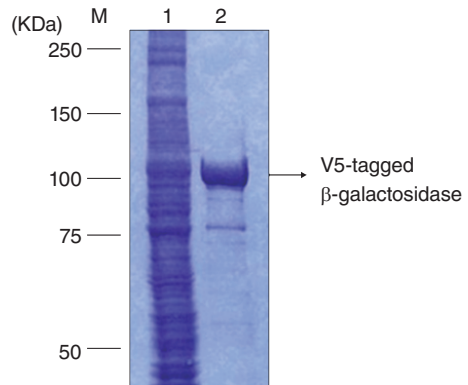
c-Myc-tagged Protein Magnetic Purification Kit (Code No. 3340)



Lane1: Input
 Lane2: Eluate
 Sample: c-Myc-tagged GST/*E.coli* JM109

■ V5-tagged β-galactosidase purification

V5-tagged Protein Magnetic Purification Kit (Code No. 3341)



Lane 1: Input
 Lane 2: Eluate
 Sample: V5-tagged β-galactosidase/HEK293T

DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies



DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
mini-AID-tag
Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

Code No.	Description	Size
3325	DDDDK-tagged Protein PURIFICATION KIT	20 tests
3325RA	DDDDK tagged Protein PURIFICATION KIT (Trial Kit)	2 tests
3326R	DDDDK-tagged Protein PURIFICATION GEL with Elution Peptide	gel 1 mL, peptide 5 mg
3328R	DDDDK-tagged Protein PURIFICATION GEL	gel 5 mL
3329R	DDDDK-tagged Protein PURIFICATION GEL	gel 25 mL
3326KR	DDDDK-tagged Protein PURIFICATION CARTRIDGE	1 mL x 1
3325-205	DDDDK-tag peptide (DYKDDDDK)	1 mg x 5
3343R	DDDDK-tagged Protein Magnetic Purification Kit	1 kit
3343RA	DDDDK-tagged Protein Magnetic Purification Kit (Trial Kit)	1 kit
3320	HA-tagged Protein PURIFICATION KIT	20 tests
3320A	HA-tagged Protein PURIFICATION KIT Trial Kit	2 tests
3321	HA-tagged Protein Purification Gel	1 mL
3320-205	HA-tag peptide (YPYDVPDYA)	2 mg x 5
3342	HA-tagged Protein Magnetic Purification Kit	1 kit
3342A	HA-tagged Protein Magnetic Purification Kit (Trial Kit)	1 kit
3310	His-tagged Protein PURIFICATION KIT	20 tests
3310A	His-tagged Protein PURIFICATION KIT Trial Kit	2 tests
3311	His-tagged Protein PURIFICATION GEL	gel 1 mL x 1, peptide 2 mg x 5
3310-205	His-tag peptide (XXX-(6xHis)-XXX)	2 mg x 5
3305	c-Myc-tagged Protein MILD PURIFICATION KIT Ver.2	20 tests
3305A	c-Myc-tagged Protein MILD PURIFICATION KIT Ver.2 (Trial Kit)	2 tests
3306	c-Myc-tagged Protein MILD PURIFICATION GEL	gel 1 mL, peptide 1 mg
3306K	c-Myc-tagged Protein PURIFICATION CARTRIDGE	1 mL x 1
3300-205	c-Myc-tag peptide (EQKLISEEDL)	1 mg x 5
3340	c-Myc-tagged Protein Magnetic Purification Kit	1 kit
3340A	c-Myc-tagged Protein Magnetic Purification Kit (Trial Kit)	1 kit
3317	V5-tagged Protein Purification Kit Ver.2	20 tests
3317A	V5-tagged Protein Purification Kit Ver.2 (Trial Kit)	2 tests
3318	V5-tagged Protein Purification Gel Ver.2	1 mL
3315-205	V5-tag peptide (GKPIPPLLGLDST)	2 mg x 5
3341	V5-tagged Protein Magnetic Purification Kit	1 kit
3190	Magnetic Rack	1.5 mL x 8 tubes

1. I cannot purify epitope-tagged target proteins from my samples.

- If you can successfully confirm that the target protein was expressed rightly by other methods (e.g. western blotting), check whether the epitope-tagged target protein binds to anti-epitope tag antibody conjugated beads (tag beads) or not.
- Briefly, after incubation the tag beads with the samples, please add SDS-PAGE sample buffer to tag beads, boil it for 5 minutes and perform SDS-PAGE or western blotting.
- If you cannot observe the target band as the results, please read the Q2.
- If you can obtain the target band as the results, please read the Q3.

2. My epitope-tagged target protein does not bind to the tag beads.

- There are several possible causes as follows;
 - Your target protein is insoluble or aggregated.
 - Your lysis buffer contains guanidine and/or high concentrated urea. Some reagents can inhibit antigen-antibody reaction.
- Please refer to “Additional information” in the data sheet for each PURIFICATION KIT. “Additional information” is about the propriety of usage of reagents contained in cell lysis buffer.
- Sometimes the compatibility between epitope-tags and target proteins affects to protein solubility. In such cases, try to change the location of epitope tag or use other epitope tags.

3. My epitope-tagged target protein binds to tag beads, but I cannot elute the protein with peptide.

- Please try to prolong the incubation time or increase elution peptide volume.
- If your proteins are easy to be aggregated, please change buffer composition.
- e.g. Use lysate buffer for washing step instead of Wash Solution which is included in the PURIFICATION KIT.
- When you change composition of buffers, please refer to “Additional information” in the data sheet for each PURIFICATION KIT. “Additional information” is about the propriety of usage of reagents contained in cell lysis buffer.

4. Which lysis buffer should I use?

- The buffer which contains usual detergent (e.g. NP-40 and Tween 20) and 0.1%-SDS can be used.

5. Does the epitope tag location affect purification efficiency?

- In many cases, MBL's PURIFICATION KITS can purify the epitope-tagged target proteins regardless of tag location.
- However, preliminary study is important in any cases.

6. Can I elute the epitope-tagged target protein at 4°C ?

- Most of MBL's PURIFICATION KITS accept 4°C in elution step. However, in His tagged Protein PURIFICATION KIT, the purification efficiency is reduced to almost halve if you elute the epitope-tagged target protein at 4°C . If you have to perform elution step at 4°C , please incubate His-tag beads with Elution Peptide Solution at 4°C overnight before elution.

DDDDK-tag	HA-tag	His-tag	Myc-tag	V5-tag	mini-AID-tag	Fluorescent Protein Antibodies	Other Tag Antibodies	HRP-Direct	Smart-IP	Purification Kit and Gel	FAQs	Isotype Control Antibodies	Loading Control Antibodies	Organelle Marker Antibodies
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DDDDK-tag
HA-tag
His-tag
Myc-tag
V5-tag
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Fluorescent Protein Antibodies
Other Tag Antibodies
HRP-Direct
Smart-IP
Purification Kit and Gel
FAQs
Isotype Control Antibodies
Loading Control Antibodies
Organelle Marker Antibodies

7. Can I purify the epitope-tagged target protein from inclusion bodies of *E. coli* ?

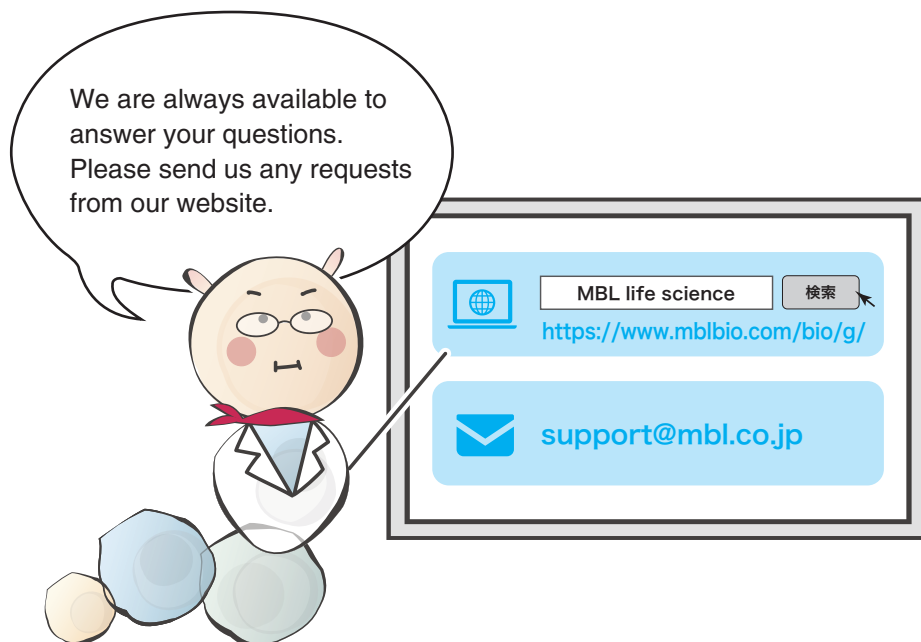
→ Some buffers which contain guanidine and/or high concentrated urea cannot be used for purification using MBL's PURIFICATION KITS. Aggregated or insoluble proteins cannot be purified, because such proteins cannot bind to tag beads. Therefore, please establish appropriate buffer condition with referring to "Additional information" in the data sheet for each PURIFICATION KIT. "Additional information" is about the propriety of usage of reagents contained in cell lysis buffer.

8. Can I elute the epitope-tagged target protein using buffers other than Elution Peptide Solution?

→ Yes you can. SDS-PAGE sample buffer, acid elution solution, and alkali elution solution can be used. However, the target proteins may lose protein activity and native conformation if you use such elution buffers.

Acid elution solution: 0.1 M Glycine-HCl, pH 3.0 (Neutralize the elution immediately with 1 M Tris-HCl, pH 8.0)

Alkali elution solution: 0.1M NH₃, pH 11.3 (Neutralize the elution immediately with 1 N acetic acid)



Related Antibodies

Isotype Control Antibodies – Negative Control Antibodies

Code No.	Description	Clone	Isotype	Applications	Size
M075-3	Mouse IgG1	2E12	Mouse IgG1 κ	IP, FCM	100 μ g/100 μ L
M075-3M2	Mouse IgG1 (Functional Grade)	2E12	Mouse IgG1 κ	–	500 μ g
M075-4	Mouse IgG1-FITC	2E12	Mouse IgG1 κ	FCM	50 μ g/1 mL
M075-5	Mouse IgG1-PE	2E12	Mouse IgG1 κ	FCM	1 mL (50 tests)
M075-6	Mouse IgG1-Biotin	2E12	Mouse IgG1 κ	FCM	50 μ g/50 μ L
M075-8	Mouse IgG1-Agarose Agarose	2E12	Mouse IgG1 κ	IP	400 μ L
M075-11	Mouse IgG1-Magnetic Beads Smart-IP	2E12	Mouse IgG1 κ	IP	20 tests (Slurry: 1 mL)
M075-12	Mouse IgG1 (isotype control)-ALP	2E12	Mouse IgG1 κ	ELISA	50 μ L
M075-A48	Mouse IgG1-Alexa Fluor™ 488 Alexa Fluor™	2E12	Mouse IgG1 κ	FCM	100 μ g
M075-A64	Mouse IgG1-Alexa Fluor™ 647 Alexa Fluor™	2E12	Mouse IgG1 κ	FCM	100 μ g
M076-3	Mouse IgG2a	6H3	Mouse IgG2a κ	IP, FCM	100 μ g/100 μ L
M076-3M2	Mouse IgG2a (Functional Grade)	6H3	Mouse IgG2a κ	–	500 μ g/100 μ L
M076-4	Mouse IgG2a-FITC	6H3	Mouse IgG2a κ	FCM	1 mL
M076-5	Mouse IgG2a-PE	6H3	Mouse IgG2a κ	FCM	1 mL (50 tests)
M076-6	Mouse IgG2a-Biotin	6H3	Mouse IgG2a κ	FCM	50 μ g/50 μ L
M076-11	Mouse IgG2a-Magnetic Beads Smart-IP	6H3	Mouse IgG2a κ	IP	20 tests (Slurry: 1 mL)
M076-12	Mouse IgG2a (isotype control)-ALP	6H3	Mouse IgG2a κ	ELISA	50 μ L
M076-A48	Mouse IgG2a-Alexa Fluor™ 488 Alexa Fluor™	6H3	Mouse IgG2a κ	FCM	100 μ g/100 μ L
M076-A64	Mouse IgG2a-Alexa Fluor™ 647 Alexa Fluor™	6H3	Mouse IgG2a κ	FCM	100 μ L/1 mg/mL
M077-3	Mouse IgG2b	3D12	Mouse IgG2b κ	IP, FCM	100 μ g/100 mL
M077-3M2	Mouse IgG2b (Functional Grade)	3D12	Mouse IgG2b κ	–	500 μ g/100 μ L
M077-4	Mouse IgG2b-FITC	3D12	Mouse IgG2b κ	FCM	50 μ g/1 mL
M077-5	Mouse IgG2b-PE	3D12	Mouse IgG2b κ	FCM	1 mL (50 tests)
M077-6	Mouse IgG2b-Biotin	3D12	Mouse IgG2b κ	FCM	50 μ g/50 μ L
M077-11	Mouse IgG2b-Magnetic Beads Smart-IP	3D12	Mouse IgG2b κ	IP	20 tests (Slurry: 1 mL)
M077-12	Mouse IgG2b (isotype control)-ALP	3D12	Mouse IgG2b κ	ELISA	50 μ L
M077-A48	Mouse IgG2b-Alexa Fluor™ 488 Alexa Fluor™	3D12	Mouse IgG2b κ	FCM	100 μ g/100 μ L
M077-A64	Mouse IgG2b-Alexa Fluor™ 647 Alexa Fluor™	3D12	Mouse IgG2b κ	FCM	100 μ g/100 μ L
M078-3	Mouse IgG3	6A3	Mouse IgG3	IP, FCM	100 μ g/100 μ L
M078-3M2	Mouse IgG3 (Functional Grade)	6A3	Mouse IgG3	–	500 μ g/100 μ L
M078-4	Mouse IgG3-FITC	6A3	Mouse IgG3	FCM	50 μ g
M078-6	Mouse IgG3 -Biotin	6A3	Mouse IgG3	FCM	50 μ g/50 μ L
M079-3	Mouse IgM	7E10	Mouse IgM	FCM	100 μ g/100 μ L
M080-3	Rat IgG1	1H5	Rat IgG1	IP, FCM	100 μ g/100 μ L
M080-3M2	Rat IgG1 (Functional Grade)	1H5	Rat IgG1	–	500 μ g/100 μ L
M080-4	Rat IgG1-FITC	1H5	Rat IgG1	FCM	50 μ g
M080-5	Rat IgG1-PE	1H5	Rat IgG1	FCM	1 mL (50 tests)
M080-A48	Rat IgG1-Alexa Fluor™ 488 Alexa Fluor™	1H5	Rat IgG1	FCM	100 μ g
M080-A64	Rat IgG1-Alexa Fluor™ 647 Alexa Fluor™	1H5	Rat IgG1	FCM	100 μ g/100 μ L
M081-3	Rat IgG2a	2H3	Rat IgG2a κ	IP, FCM	100 μ g/100 μ L
M081-3M2	Rat IgG2 (Functional Grade)	2H3	Rat IgG2a κ	–	500 μ g/100 μ L
M081-4	Rat IgG2a-FITC	2H3	Rat IgG2a κ	FCM	50 μ g/1 mL
M081-5	Rat IgG2a-PE	2H3	Rat IgG2a κ	FCM	1 mL (50 tests)
M081-8	Rat IgG2a-Agarose Agarose	2H3	Rat IgG2a κ	IP	20 tests (Gel: 200 μ L)
M081-11	Rat IgG2a-Magnetic Beads Smart-IP	2H3	Rat IgG2a κ	IP	20 tests (Slurry: 1 mL)
M081-A48	Rat IgG2a-Alexa Fluor™ 488 Alexa Fluor™	2H3	Rat IgG2a κ	FCM	100 μ g/100 μ L
M081-A64	Rat IgG2a-Alexa Fluor™ 647 Alexa Fluor™	2H3	Rat IgG2a κ	FCM	100 μ g/100 μ L
M082-3	Rat IgG2c	6E12	Rat IgG2c	IP, FCM	100 μ g/100 μ L
M082-3M2	Rat IgG2a (Functional Grade)	6E12	Rat IgG2c	–	500 μ g/100 μ L
M082-4	Rat IgG2c-FITC	6E12	Rat IgG2c	FCM	50 μ g
M090-3	Rat IgG2b	3G8	Rat IgG2b κ	IP, FCM	100 μ g
M090-3M2	Rat IgG2b (Functional Grade)	3G8	Rat IgG2b κ	–	500 μ g
M090-4	Rat IgG2b-FITC	3G8	Rat IgG2b κ	FCM	1 mL
M090-5	Rat IgG2b-PE	3G8	Rat IgG2b κ	FCM	1 mL (50 tests)
M090-A48	Rat IgG2b-Alexa Fluor™ 488 Alexa Fluor™	3G8	Rat IgG2b κ	FCM	100 μ g
M090-A64	Rat IgG2b-Alexa Fluor™ 647 Alexa Fluor™	3G8	Rat IgG2b κ	FCM	100 μ g/100 μ L
M189-3	Syrian Hamster IgG	ttko	Hamster IgG	IP, FCM	100 μ g/100 μ L
M199-3	Armenian Hamster IgG	ttko2	Hamster IgG	IP, FCM	100 μ g/100 μ L
PM035	Normal Rabbit IgG	Polyclonal	Rabbit IgG	IP, FCM	500 μ g/100 μ L
PM035-8	Normal Rabbit IgG-Agarose Agarose	Polyclonal	Rabbit IgG	IP	Gel: 200 μ L
PM067	Normal Guinea Pig IgG	Polyclonal	Guinea Pig IgG	IP, FCM	100 μ g/100 μ L
PM084	Normal Chicken IgY	Polyclonal	Chicken IgY	FCM	200 μ g/200 μ L
PM084-4	Normal Chicken IgY-FITC	Polyclonal	Chicken IgY	FCM	100 μ g/100 μ L
PM084-5	Normal Chicken IgY-PE	Polyclonal	Chicken IgY	FCM	1 mL (50 tests)
PM094	Normal Goat IgG	Polyclonal	Goat IgG	IC	500 μ g/100 μ L
M194-3	Human IgG1 isotype control chimeric mAb	2E12G1-2	Human IgG1	–	100 μ g/100 μ L
M195-3	Human IgG2 isotype control chimeric mAb	2E12G2-18	Human IgG2	–	100 μ g/100 μ L

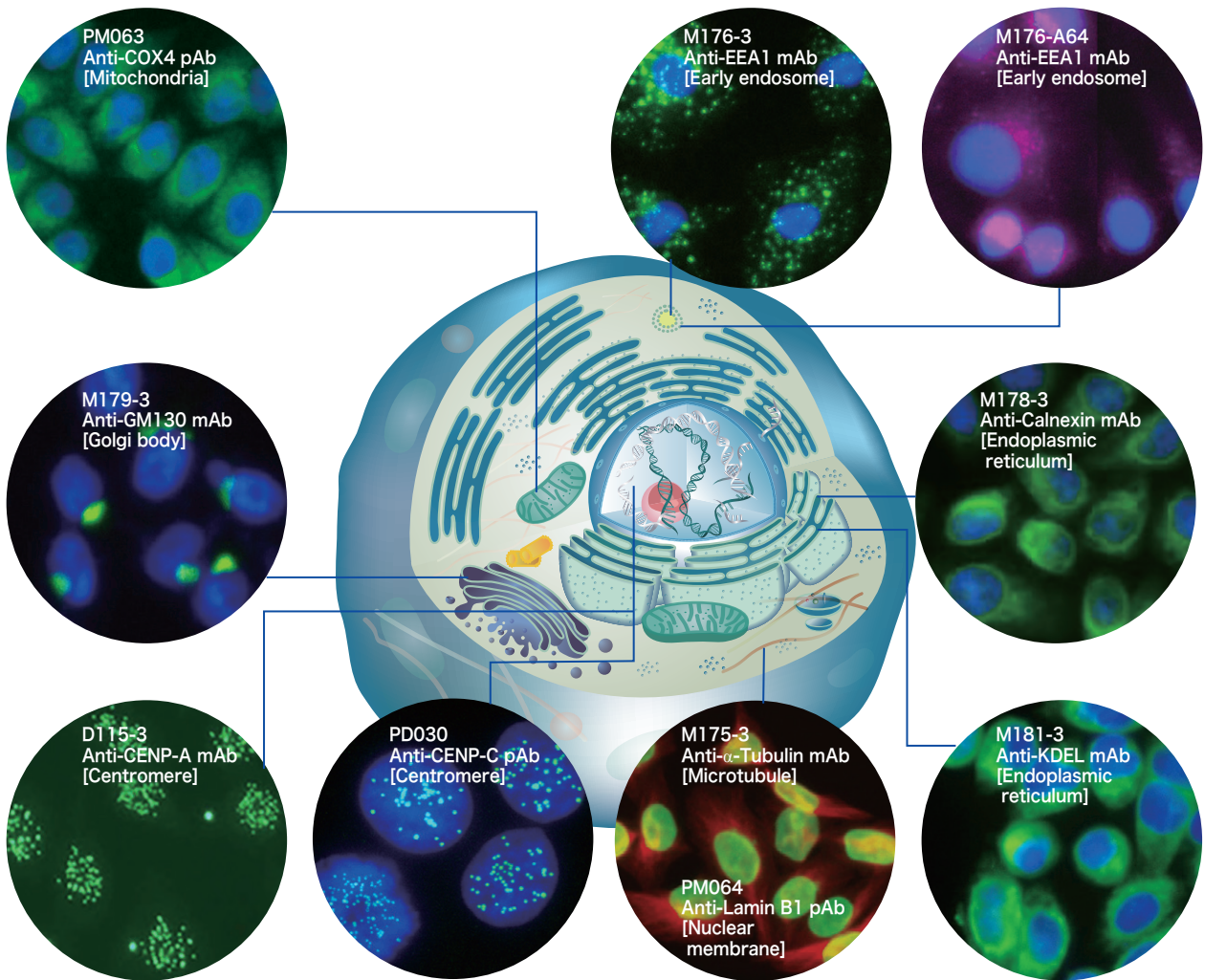
Loading Control Antibodies

Code No.	Description	molecular weight	Clone	Isotype	Applications	Size
M171-3	Anti-GAPDH mAb	around 35 kDa (36 kDa)	3H12	Mouse IgG2a κ	WB	300 μ g/100 μ L
M171-7	Anti-GAPDH mAb-HRP-Direct HRP-Direct	around 35 kDa (36 kDa)	3H12	Mouse IgG2a κ	WB	50 μ L
M177-3	Anti- β -Actin mAb	around 40 kDa (42 kDa)	6D1	Mouse IgG1 κ	WB, IP	100 μ g/100 μ L
PM053	Anti- β -Actin pAb	around 40 kDa (42 kDa)	Polyclonal	Rabbit Ig (aff.)	WB, IP	100 μ L
PM053-7	Anti- β -Actin pAb-HRP-Direct HRP-Direct	around 40 kDa (42 kDa)	Polyclonal	Rabbit Ig (aff.)	WB	50 μ L
M175-3	Anti- α -Tubulin mAb	around 50 kDa (50 kDa)	2F9	Mouse IgG2a κ	WB, IP, IC	200 μ g/100 μ L
PM054	Anti- α -Tubulin pAb	around 50 kDa (50 kDa)	Polyclonal	Rabbit Ig (aff.)	WB, IP, IC	100 μ L
PM054-7	Anti- α -Tubulin pAb-HRP-Direct HRP-Direct	around 50 kDa (50 kDa)	Polyclonal	Rabbit Ig (aff.)	WB	50 μ L
PM064	Anti-Lamin B1 pAb	around 70 kDa (66 kDa)	Polyclonal	Rabbit Ig (aff.)	WB, IP, IC	100 μ L
PM088	Anti-Vinculin pAb	around 120 kDa (124 kDa)	Polyclonal	Rabbit Ig (aff.)	WB	100 μ L

Organelle Marker Antibodies

Code No.	Description	Clone	Isotype	Target	Applications	Size
PM062	Anti-EEA1 pAb	Polyclonal	Rabbit Ig (aff.)	Early endosome	WB, IP, IC	100 μ L
M176-3	Anti-EEA1 mAb	3C10	Mouse IgG2a κ	Early endosome	WB, IP, IC	100 μ g/100 μ L
M176-A48	Anti-EEA1 mAb-Alexa Fluor™ 488 Alexa Fluor™	3C10	Mouse IgG2a κ	Early endosome	IC	100 μ g/100 μ L
M176-A59	Anti-EEA1 mAb-Alexa Fluor™ 594 Alexa Fluor™	3C10	Mouse IgG2a κ	Early endosome	IC	100 μ g/100 μ L
M176-A64	Anti-EEA1 mAb-Alexa Fluor™ 647 Alexa Fluor™	3C10	Mouse IgG2a κ	Early endosome	IC	100 μ g/100 μ L
PM060	Anti-Calnexin pAb	Polyclonal	Rabbit Ig (aff.)	Endoplasmic reticulum	WB, IP, IC	100 μ L
M178-3	Anti-Calnexin mAb	4F10	Mouse IgG2a κ	Endoplasmic reticulum	WB, IP, IC	100 μ g/100 μ L
PM059	Anti-KDEL pAb	Polyclonal	Rabbit Ig (aff.)	Endoplasmic reticulum	WB, IC, IH*	100 μ L
M181-3	Anti-KDEL mAb	1D5	Mouse IgG2a κ	Endoplasmic reticulum	WB, IP*, IC, IH*	100 μ g/100 μ L
PM061	Anti-GM130 pAb	Polyclonal	Rabbit Ig (aff.)	Golgi body	WB, IP, IC	100 μ L
M179-3	Anti-GM130 mAb	5G8	Mouse IgG2a κ	Golgi body	WB, IP, IC	100 μ g/100 μ L
M179-A48	Anti-GM130 mAb-Alexa Fluor™ 488 Alexa Fluor™	5G8	Mouse IgG2a κ	Golgi body	IC	100 μ g/100 μ L
PM063	Anti-COX4 pAb	Polyclonal	Rabbit Ig (aff.)	Mitochondria	WB, IP, IC	100 μ L
PM064	Anti-Lamin B1 pAb	Polyclonal	Rabbit Ig (aff.)	Nuclear membrane	WB, IP, IC	100 μ L
D115-3	Anti-CENP-A mAb	3-19	Mouse IgG1	Centromere	WB, IC, IH, ChIP*	100 μ g/100 μ L
PD030	Anti-CENP-C pAb	Polyclonal	Guinea pig IgG	Centromere	WB, IP, IC	100 μ L
PM054	Anti- α -Tubulin pAb	Polyclonal	Rabbit Ig (aff.)	Microtubule	WB, IP, IC	100 μ L
PM054-7	Anti- α -Tubulin pAb-HRP-Direct HRP-Direct	Polyclonal	Rabbit Ig (aff.)	Microtubule	WB	50 μ L
M175-3	Anti- α -Tubulin mAb	2F9	Mouse IgG2a κ	Microtubule	WB, IP, IC	200 μ g/100 μ L
M175-A48	Anti- α -Tubulin mAb-Alexa Fluor™ 488 Alexa Fluor™	2F9	Mouse IgG2a κ	Microtubule	IC	100 μ g/100 μ L
PM036	Anti-LC3 pAb	Polyclonal	Rabbit IgG	Autophagosome	WB, IP, FCM, IC, IH	100 μ L
PD014	Anti-LC3 pAb	Polyclonal	Rabbit IgG	Autophagosome	WB, IC*, IH*	100 μ L
M152-3	Anti-LC3 mAb	4E12	Mouse IgG1 κ	Autophagosome	WB, IP, FCM, IC, IH*, Immuno-EM	200 μ g/100 μ L
M186-3	Anti-LC3 mAb	8E10	Mouse IgG2a κ	Autophagosome	WB	100 μ g/100 μ L
M186-7	Anti-LC3 mAb-HRP-Direct HRP-Direct	8E10	Mouse IgG2a κ	Autophagosome	WB	50 μ L

Organelle Marker Antibodies



DDDDK-tag	
HA-tag	
His-tag	
Myc-tag	
V5-tag	
mini-AID-tag	
Fluorescent Protein Antibodies	
Other Tag Antibodies	
HRP-Direct	
Smart-IP	
Purification Kit and Gel	
FAQs	
Isotype Control Antibodies	
Loading Control Antibodies	
Organelle Marker Antibodies	

For complete and up-to-date product information visit:

<https://www.mblbio.com/bio/g/product/tag/pickup/index.html>



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