

Anti-IL-38 (IL1F10) (Human) mAb

CODE No.	D359-3
CLONALITY	Monoclonal
CLONE	H160A
ISOTYPE	Mouse IgG1 κ
QUANTITY	100 μ L, 1 mg/mL
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	Recombinant full-length Human IL-38 protein
FORMULATION	PBS containing 50% Glycerol (pH 7.2). No preservative is contained.
STORAGE	This antibody solution is stable for one year from the date of purchase when stored at -20°C.

APPLICATIONS-CONFIRMED

<u>Western blotting</u>	1 μ g/mL for chemiluminescence detection system
<u>Immunoprecipitation</u>	5 μ g/2 μ g recombinant protein

APPLICATION-REPORTED

<u>Sandwich ELISA</u>	Reference 1)
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SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Sample	Recombinant protein	Not tested	Not tested	Not tested
Reactivity	+			

Entrez Gene ID 84639 (Human)

REFERENCES

- 1) Takenaka, SI., *et al.*, *Biochem. Biophys. Rep.* **4**, 386-391 (2015)
- 2) Oda, H., *et al.*, *Ann. Allergy Asthma Immunol.* **112**, 23-28 (2014)
- 3) Hoshino, T., *et al.*, *Am. J. Respir. Cell Mol. Biol.* **41**, 661-670 (2009)
- 4) Kitasato, Y., *et al.*, *Am. J. Respir. Cell Mol. Biol.* **31**, 619-625 (2004)

For more information, please visit our web site <http://ruo.mbl.co.jp/>

RELATED PRODUCTS

Antibodies

D359-3	Anti-IL-38 (IL1F10) (Human) mAb (H160A)
D358-3	Anti-IL-38 (IL1F10) (Human) mAb (H127C)
D043-3	Anti-IL-18 (Human) mAb (25-2G)
D044-3	Anti-IL-18 (Human) mAb (125-2H)
D045-3	Anti-IL-18 (Human) mAb (159-12B)
D045-6	Anti-IL-18 (Human) mAb-Biotin (159-12B)
D046-3	Anti-IL-18 (Mouse) mAb (39-3F)
D047-3	Anti-IL-18 (Mouse) mAb (74)
D048-3	Anti-IL-18 (Mouse) mAb (93-10C)
D048-6	Anti-IL-18 (Mouse) mAb-Biotin (93-10C)
PM014	Anti-IL-18 (Human) pAb (polyclonal)
M157-3	Anti-IL-18 (Rat) mAb (21A12)
M158-3	Anti-IL-18 (Rat) mAb (91D8)
D342-3	Anti-IL18R1 (CD218a) (Human) mAb (H44)
M159-3	Anti-IL-18 receptor 1 (Human) mAb (44G6)
M163-3	Anti-IL-18 receptor 1 (Mouse) mAb (33A11)
M166-3	Anti-IL-18 receptor 1 (Mouse) mAb (64G4)
D304-3	Anti-IL-18 BP (Human) mAb (#36)
D305-3	Anti-IL-18 BP (Human) mAb (#13)
D306-3	Anti-IL-18 BP (Mouse) mAb (#36)
D307-3	Anti-IL-18 BP (Mouse) mAb (#31)
M156-3	Anti-pro-IL-18 (Human) mAb (43A11)
M138-3	Anti-IL-33 (Human) mAb (5H1)
PM033	Anti-IL-33 (Human) pAb (polyclonal)
M161-3	Anti-IL-33 (Mouse) mAb (4G4)
M187-3	Anti-IL-33 (Mouse) mAb FG (1F11)
M188-3	Anti-IL-33 (Mouse) mAb FG (2C7)
D065-3	Anti-ST2 (Human) mAb (HB12)
D067-3	Anti-ST2 (Human) mAb (2A5)
D067-4	Anti-ST2 (Human) mAb-FITC (2A5)
D067-5	Anti-ST2 (Human) mAb-PE (2A5)

Kits

7620	Human IL-18 ELISA Kit
7625	Mouse IL-18 ELISA Kit
7650	Human IL-33 Cytokine domain Detection Kit
5332	Ab-Match ASSEMBLY Mouse IL-33 kit
7638	ST2 ELISA Kit

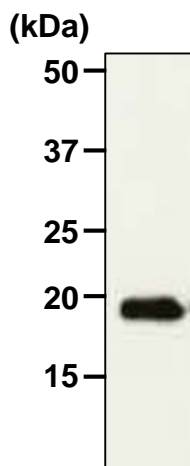
Recombinant proteins

B001-5	Recombinant Human IL-18
B003-5	Recombinant Human IL-18 (without BSA)
B002-5	Recombinant Mouse IL-18
B004-5	Recombinant Mouse IL-18 (without BSA)

SDS-PAGE & Western blotting

- 1) Load 5 µg of recombinant protein per lane in a 1-mm-thick SDS-polyacrylamide gel (15% acrylamide) for electrophoresis.
- 2) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
- 3) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS) overnight at 4°C.
- 4) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (3 times for 5 min.).
- 5) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS) as suggested in the **APPLICATIONS** for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 6) Wash the membrane with PBS-T (3 times for 5 min.).
- 7) Incubate the membrane with 1:10,000 of Anti-IgG (Mouse) pAb-HRP (MBL; code no. 330) diluted with 1% skimmed milk (in PBS) for 1 hr. at room temperature.
- 8) Wash the membrane with PBS-T (3 times for 5 min.).
- 9) Wipe excess buffer on the membrane, and then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 10) Expose to an X-ray film for 3 min. in a dark room. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Western blotting; Recombinant protein)



Western blot analysis of human IL-38 (IL1F10)

Sample: Recombinant human IL-38

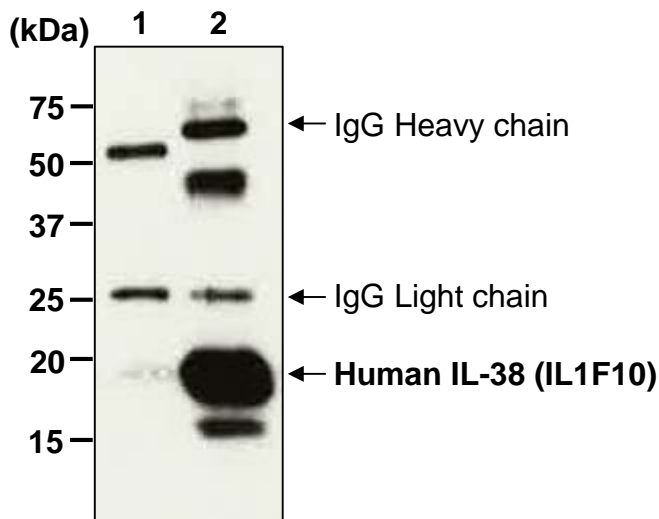
Immunoblotted with Anti-IL-38 (IL1F10) (Human) mAb (D359-3)

Sample was kindly provided by Dr. Tomoaki Hoshino (Divisions of Respiriology, Neurology, and Rheumatology, Department of Medicine, Kurume University School of Medicine).

Immunoprecipitation

- 1) Mix 20 μ L of 50% protein A agarose beads slurry resuspended in 300 μ L of IP buffer [50 mM Tris-HCl (pH 7.4), 150 mM NaCl, 0.05% NP-40] with primary antibody as suggested in the **APPLICATIONS**. Incubate with gentle agitation for 1 hr. at room temperature.
- 2) Wash the beads 3 times with 1 mL of IP buffer.
- 3) Add 2 μ g of recombinant human IL-38 and 300 μ L of IP buffer into the tube. Incubate with gentle agitation overnight at 4°C.
- 4) Wash the beads 6 times with 1 mL of IP buffer.
- 5) Resuspend the beads in 20 μ L of Laemmli's sample buffer, boil for 3 min. and centrifuge.
- 6) Load 10 μ L per lane in a 1-mm-thick SDS-polyacrylamide gel (15% acrylamide) for electrophoresis.
- 7) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
- 8) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS) overnight at 4°C.
- 9) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS) as suggested in the **APPLICATIONS** for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 10) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (3 times for 5 min.).
- 11) Incubate the membrane with 1:10,000 of Anti-IgG (Mouse) pAb-HRP (MBL; code no. 330) diluted with 1% skimmed milk (in PBS) for 1 hr. at room temperature.
- 12) Wash the membrane with PBS-T (3 times for 5 min.).
- 13) Wipe excess buffer on the membrane, and then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 14) Expose to an X-ray film for 3 min. in a dark room. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Immunoprecipitation; Recombinant protein)



Immunoprecipitation of human IL-38 (IL1F10)

Sample: Recombinant human IL-38

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

Lane 2: Anti-IL-38 (IL1F10) (Human) mAb (D359-3)

Immunoblotted with Anti-IL-38 (IL1F10) (Human) mAb (D359-3)

Sample was kindly provided by Dr. Tomoaki Hoshino (Divisions of Respiriology, Neurology, and Rheumatology, Department of Medicine, Kurume University School of Medicine).