For Research Use Only.
Not for use in diagnostic procedures.

Anti-IDH1 mAb

CODE No. D336-3

CLONALITY Monoclonal
CLONE RcMab-1
ISOTYPE Rat IgG2a κ
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
REACTIVITY This clone reacts with wild type and mutated IDH1.
FORMURATION 1 mg/mL in PBS containing 50% glycerol. No preservative is contained.
STORAGE This antibody solution is stable for one year from the date of purchase when stored at -20°C.

APPLICATION-CONFIRMED
Western blotting 0.5-1 µg/mL for chemiluminescence detection system

APPLICATION-REPORTED
Immunocytochemistry Reference 1)

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Cells	Recombinant protein	Not tested	Not tested	Reference 2)
Reactivity	+			

Entrez Gene ID 3417 (Human)

REFERENCES
1) Kaneko, M. K, *et al.*, *Monoclon Antib Immunodiagn Immunother* In press (2013) [WB, IC]
2) Kato, Y., *et al.*, *Biochem Biophys Res Commun.* **432**, 564-567 (2013) [WB]

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

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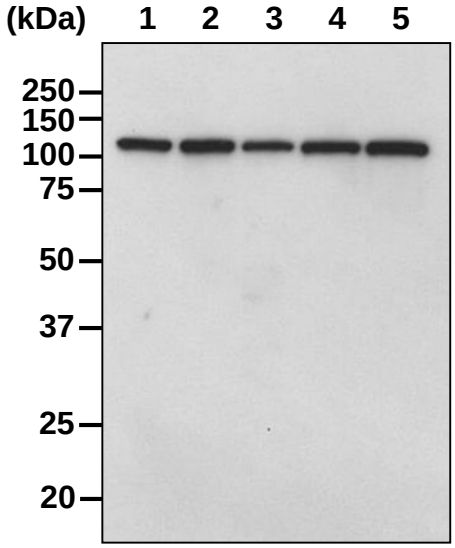
RELATED PRODUCTS

D336-3	Anti-IDH1 (Human) mAb (RcMab-1)
D309-3	Anti-IDH1 mAb (RMab-3)
D299-3	Anti-IDH1-R132H (Human) mAb (HMab-1)
D300-3	Anti-IDH1-R132S (Human) mAb (SMab-1)
D331-3	Anti-IDH1-R132G (Human) mAb (GMab-r1)
D311-3	Anti-IDH2 mAb (RMab-22)
D330-3	Anti-IDH2 mAb (KrMab-3)
D328-3	Anti-IDH2-R172K (Human) mAb (KMab-1)
D337-3	Anti-IDH2-R172M (Human) mAb (MMab-1)
D338-3	Anti-IDH2-R172W (Human) mAb (WMab-1)

SDS-PAGE & Western blotting

1) The recombinant protein is dissolved in Laemmli's sample buffer at 5 μg/mL.
2) Boil the samples for 3 min. and centrifuge. Load 10 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
3) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm^2 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.
4) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature.
5) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) 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 [0.05% Tween-20 in PBS] (5 min. x 3 times).
7) Incubate the membrane with the 1:10,000 of anti-IgG (Rat) pAb-HRP (MBL; code no. IM-0825) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature.
8) Wash the membrane with PBS-T (5 min. x 3 times).
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 in a dark room for 1 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Western blotting; recombinant human IDH1)



Western blot analysis of human IDH1 proteins

Lane 1: IDH1 (Wild type)
Lane 2: IDH1-R132H
Lane 3: IDH1-R132S
Lane 4: IDH1-R132L
Lane 5: IDH1-R132G

Immunoblotted with Anti-IDH1 mAb (D336-3)