

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

Anti-Phospho-Desmin (Ser31) mAb

CODE No.	D375-3
CLONALITY	Monoclonal
CLONE	TD31
ISOTYPE	Rat IgG2b κ
QUANTITY	100 μ L, 1 mg/mL
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	KLH-conjugated synthetic peptide, CGSPLSpSPVFPR (corresponding to amino acids 27-37 of mouse Desmin)
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.

APPLICATION-CONFIRMED

Western blotting 1 μ g/mL for chemiluminescence detection system

APPLICATIONS-REPORTED

Immunocytochemistry Reference 1)

Immunohistochemistry Reference 1)

SPECIES CROSS REACTIVITY on WB

Species	Human*	Mouse	Rat	Hamster
Cells	Not tested	C2C12	Not tested	BHK
Reactivity		+		+

*It is reported that clone TD31 reacts with human tissues in Immunohistochemistry¹⁾.

Entrez Gene ID 13346 (Mouse)

REFERENCE 1) Makihara, H., *et al.*, *Biochem. Biophys. Res. Commun.* **478**, 1323-1329 (2016)
[WB, IC, IHC]

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

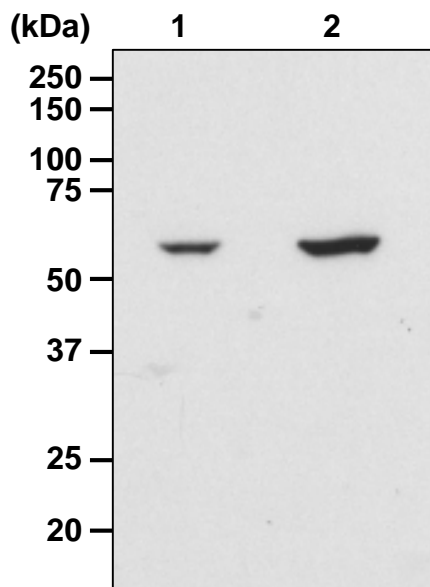
RELATED PRODUCTS

D374-3 Anti-Phospho-Keratin-5 (Thr23) mAb (PK5-23)
M090-3 Rat IgG2b (isotype control) (3G8)

SDS-PAGE & Western blotting

- 1) Wash 1×10^7 cells 3 times with PBS and suspend them in 1 mL of Laemmli's sample buffer, then sonicate briefly (up to 10 sec.)
- 2) Boil the sample for 2 min. and centrifuge. Load 10 μ L 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/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.
- 4) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
- 5) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) as suggested in the **APPLICATION** 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 1:2,000 of Goat anti-Rat IgG (H+L) Cross-Adsorbed Secondary Antibody, HRP (Invitrogen; code no. A10549) 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 3 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive controls for Western blotting: C2C12 and BHK)



Western blot analysis of Phospho-Desmin (Ser31)

Lane 1: C2C12
Lane 2: BHK

Immunoblotted with Anti-Phospho-Desmin (Ser31) mAb (D375-3)