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

Anti-Ace (CD143) (Mouse) mAb

CODE No. D357-3

CLONALITY Monoclonal
CLONE 1D5
ISOTYPE Mouse IgG2b κ
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
IMMUNOGEN Recombinant protein corresponding to N-terminal region of mouse tACE (testicular ACE) without the signal peptide
REACTIVITY This clone reacts with both somatic and testis isoforms of Ace.
FORMURATION 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 µg/mL for chemiluminescence detection system

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Samples	Not tested	Sperm, testis	Not tested	Not tested
Reactivity		+		

Entrez Gene ID 11421 (Mouse)

REFERENCES

1) Fujihara, Y., *et al*., *Biol. Reprod*. **90**, 60 (2014)
2) Fujihara, Y., *et al*., *PNAS*. **110**, 8111-8116 (2013)
3) Deguchi, E., *et al*., *Biol. Reprod*. **77**, 794-802 (2007)
4) Yamaguchi, R., *et al*., *Biol. Reprod*. **75**, 760-766 (2006)
5) Hagaman, J. R., *et al*., *PNAS*. **95**, 2552-2557 (1998)

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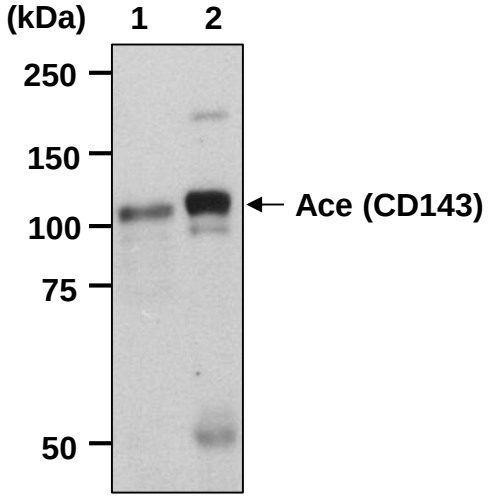
RELATED PRODUCTS

D357-3	Anti-Ace (CD143) (Mouse) mAb (1D5)
M207-3	Anti-MitoPLD (Pld6) mAb (26C46-6)
RN010MW	Anti-PIWIL1 (MIWI) mAb (2D9)
PM043	Anti-PIWIL2 (MILI) (Mouse) pAb
PM044	Anti-PIWIL2 (MILI) (Mouse) pAb
D356-3	Anti-Jmjd1c (Mouse) mAb (13B)
M077-3	Mouse IgG2b (isotype control) (3D12)

SDS-PAGE & Western blotting

1) Boil the sample for 2 min. and centrifuge. Load 20 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (7.5% acrylamide) for electrophoresis.
2) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 190 mA 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, pH 7.2) overnight at 4°C.
4) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
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 (5 min. x 3 times).
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, 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, 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 a 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; Mouse sperm and testis)



Western blot analysis of mouse Ace (CD143)

Lane 1: Mouse sperm
Lane 2: Mouse testis

Immunoblotted with Anti-Ace (CD143) (Mouse) mAb (D357-3)