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

Anti-IL18R1 (CD218a) (Human) mAb

CODE No. D342-3

CLONALITY Monoclonal
CLONE H44
ISOTYPE Mouse IgG1 κ
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
IMMUNOGEN Human Natural Killer cell line NK0
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.

APPLICATIONS-CONFIRMED

Western blotting — Not recommended
Immunohistochemistry — 4 µg/mL (paraffin section)
Heat treatment for paraffin embedded section: microwave, for 10 min. in 10 mM Tris-EDTA (pH 9.0)
Flow cytometry — 5 µg/mL

APPLICATION-REPORTED

Immunoprecipitation — Reference 2)

SPECIES CROSS REACTIVITY on FCM

Species	Human	Mouse	Rat	Hamster
Cells	Peripheral blood Lymphocyte, KG-1	Not tested	Not tested	Not tested
Reactivity	+			

Entrez Gene ID 8809 (Human)

REFERENCES

1) Oda, H., *et al.*, *Ann. Allergy Asthma Immunol.* **112**, 23-28 (2014) [IHC-P]
2) Kitasato, Y., *et al.*, *Am. J. Respir. Cell Mol. Biol.* **31**, 619-625 (2004) [FCM, IHC-P, IP]

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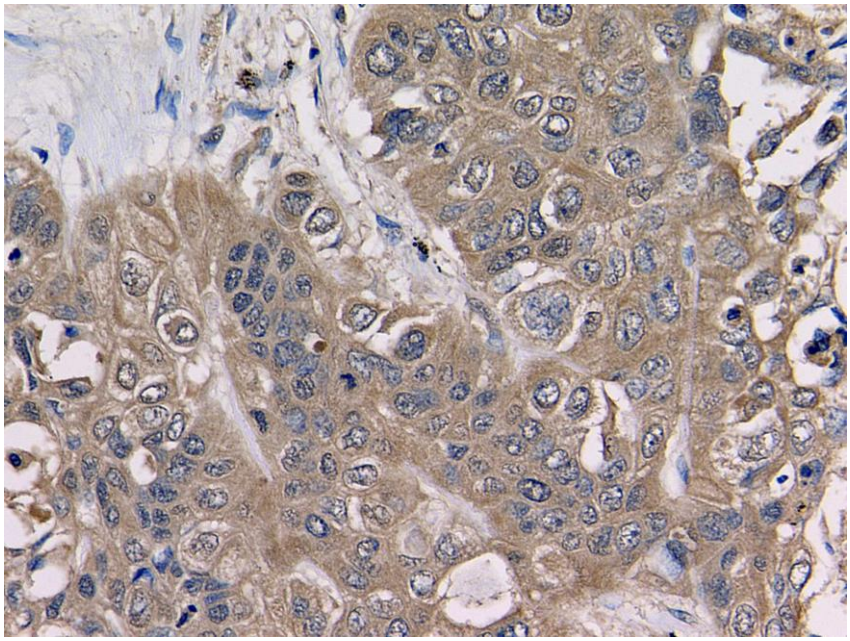
RELATED PRODUCTS

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)
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)
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)
7620	Human IL-18 ELISA Kit
7625	Mouse IL-18 ELISA Kit
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)

Immunohistochemcal detection for paraffin embedded section

1) Deparaffinize the sections with Xylene 3 times for 5 min. each.
2) Wash the slides with Ethanol 3 times for 5 min. each.
3) Wash the slides 3 times in PBS for 5 min. each.
4) Remove the slides from PBS and heat-treated with 10 mM Tris-EDTA (10 mM Tris, 1 mM EDTA, pH 9.0) for 10 min. using microwave.
5) Let the slides cool down at room temperature in Tris-EDTA.
6) Remove the slides from Tris-EDTA and inactivate endogenous peroxidase with 3% H_2O_2 in PBS for 20 min.
7) Wash the slides 3 times in PBS for 5 min. each.
8) Remove the slides from PBS, wipe gently around each section and cover tissues with blocking buffer (1% BSA, 20 mM HEPES, 135 mM NaCl (pH 7.4)) for 20 min. at room temperature to block non-specific staining. Do not wash.
9) Tip off the blocking buffer, wipe gently around each section and cover tissues with primary antibody diluted with 1% BSA in PBS as suggested in the **APPLICATIONS**. (Optimization of antibody concentration or incubation condition is recommended if necessary.) Incubate the sections overnight at 4℃.
10) Wash the slides 3 times in PBS for 5 min. each.
11) Wipe gently around each section and cover tissues with Histostar (Ms + Rb) (MBL; code no. 8460). Incubate for 30 min. at room temperature.
12) Wash the slides 3 times in PBS for 5 min. each.
13) Visualize by reacting for 3 min. with Histostar DAB Substrate Solution (MBL; code no. 8469). *DAB is a suspect carcinogen and must be handled with care. Always wear gloves.
14) Wash the slides in water for 5 min.
15) Counterstain in hematoxylin for 1 min., wash the slides 3 times in water for 5 min. each, and then immerse the slides in PBS for 5 min.
16) Dehydrate by immersing in Ethanol 3 times for 3 min. each, followed by immersing in Xylene 3 times for 3 min. each. Now ready for mounting.

(Positive control for Immunohistochemistry; Human lung cancer)

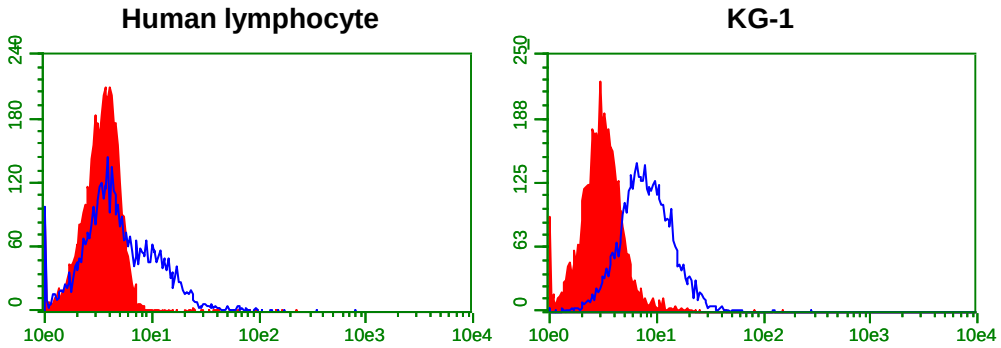


Immunohistochemical detection of IL18R1 (CD218a) in human lung cancer
Brown: Anti-IL18R1 (CD218a) (Human) mAb (D342-3)
Blue: Hematoxylin

Flow cytometric analysis

1) Wash the cells 3 times with 1 mL of washing buffer (PBS containing 2% fetal calf serum (FCS)).
2) Add 10 µL of Clear Back (human Fc receptor blocking reagent, MBL; code no. MTG-001) to the cell pellet after tapping. Mix well and incubate for 5 min. at room temperature.
3) Add 50 µL of the primary antibody at the concentration as suggested in the **APPLICATIONS** diluted in the washing buffer Mix well and incubate for 30 min. at room temperature. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
4) Wash the cells 1 time with 1 mL of the washing buffer.
5) Add 40 µL of 1:100 anti-IgG (Mouse)-FITC (MBL; code no. IM-0819) diluted in the washing buffer. Mix well and incubate for 30 min. at room temperature.
6) Wash the cells 1 time with 1 mL of the washing buffer.
7) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; Human peripheral blood lymphocyte, KG-1)



Flow cytometric detection of IL18R1 (CD218a)

Left: Human peripheral blood lymphocytes (1 x 10^6 cells/sample)
Right: KG-1 (5 x 10^5 cells/sample)

Open: Anti-IL18R1 (CD218a) (Human) mAb (D342-3)
Closed: Isotype control (M075-3)