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

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MONOCLONAL ANTIBODY

Anti-MXRA8 (Human) mAb

Code No.	Clone	Subclass	Quantity	Concentration
W040-3	2H2G12A	Mouse IgG2a κ	100 µL	1 mg/mL

BACKGROUND: Matrix-remodelling associated 8 (MXRA8), also known as limitrin, is a single-pass type I membrane protein, which possesses two immunoglobulin-like domains. MXRA8 is expressed in the spinal cord, brain and various cancer types.

SOURCE: This antibody was purified from hybridoma culture supernatant by Protein A affinity column chromatography.

IMMUNOGEN: Human MXRA8 expressed Ba/F3 transfectants generated from SST-REX (signal sequence trap by retrovirus-mediated expression screening).

FORMULATION: 100 µg IgG in 100 µL volume of 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.

REACTIVITY: This antibody reacts with human MXRA8 on Flow cytometry.

APPLICATIONS:
Flow cytometry; 1-10 µg/mL
Western blotting; Not tested
Immunoprecipitation; Not tested
Immunohistochemistry; Not tested
Immunocytochemistry; Not tested

Detailed procedure is provided in the following **PROTOCOL**.

INTENDED USE:
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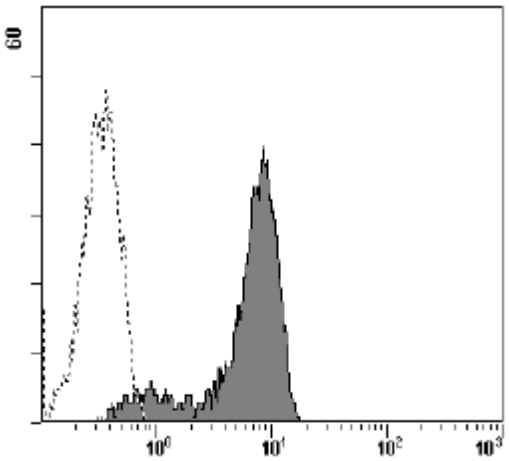
Entrez Gene ID:
54587 (Human)

SPECIES CROSS REACTIVITY:

Species	Human	Mouse	Rat	Hamster
Cell	Transfectant	Not tested	Not tested	Not tested
Reactivity on FCM	+			

REFERENCES:
1) Yonezawa, T., *et al*., *Glia* **44**, 190-204 (2003)
2) Kojima, T. and Kitamura, T., *Nat. Biotechnol.* **17**, 487-490 (1999)



Flow cytometric analysis of human MXRA8 expression on Ba/F3 transfectant. *Open histograms indicate the reaction of isotypic control to the cells. Shaded histograms indicate the reaction of W040-3 to the cells.*

The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

PROTOCOL:

Flow cytometric analysis for floating cells

We usually use Fisher tubes or equivalents as reaction tubes for all steps described below.

1) Wash the cells 3 times with washing buffer [PBS containing 2% fatal calf serum (FCS) and 0.05% NaN_3].
*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.
2) Resuspend the cells with washing buffer (2.5 x 10^6 cells/mL).
3) Add 200 µL of cell suspension into each tube. And centrifuge at 500 x g for 1 minute at room temperature (20~25°C). Remove supernatant by careful decantation.
4) Add 20 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 minutes at room temperature.

5) 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 minutes at room temperature.
6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful decantation.
7) Add 50 µL of 1:200 Anti-mouse IgG-PE (Beckman Coulter; code no. IM0855) diluted with the washing buffer. Mix well and incubate for 30 minutes at room temperature.
8) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful decantation.
9) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; Transfectant)

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