Mouse MS4A4B APC-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 444008

Catalog Number: FAB4504A
100 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MS4A4B. Stains mouse MS4A4B transfectants but not irrelevant transfectants.
Source	Monoclonal Rat IgG_{2A} Clone # 444008
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with mouse MS4A4B Met1-Val226 Accession # NP_068364
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

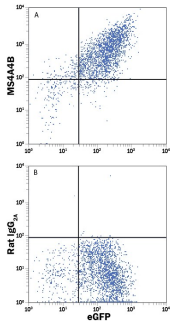
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of MS4A4B in NS0 Mouse Cell Line by Flow Cytometry. NS0 mouse myeloma cell line transfected with mouse MS4A4B and eGFP was stained with either (A) Rat Anti-Mouse MS4A4B APC-conjugated Monoclonal Antibody (Catalog # FAB4504A) or (B) Rat IgG_{2A} Allophycocyanin Isotype Control (Catalog # IC006A). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Membrane Spanning 4 domain family, subfamily A4B (MS4A4B), also known as Chandra, is a member of the MS4A family of four-transmembrane proteins that includes CD20. It is expressed in immature $CD4^-CD8^-$ T cells, NKT cells, $CD4^+$ and $CD8^+$ T cells, $CD4^+CD25^+FoxP3^+$ Tregs and later in mature Th1 but not Th2 cells. MS4A4B is enriched in lipid rafts of activated T cells, and overexpression enhances Th1 cytokine expression, indicating a possible role in cell signaling.

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