

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	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10 ⁶ cells	Mouse thymocytes

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

MS4A4B, also called Chandra, is a member of the MS4A family of four-transmembrane proteins that includes CD20. It is expressed in immature CD4⁺CD8⁻ T cells, 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. Mouse MS4A4B shares 69% overall amino acid (aa) identity with rat, and low (< 40%) aa identity with human MS4A4B.

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