

DESCRIPTION

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| 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 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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

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| 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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