

DESCRIPTION

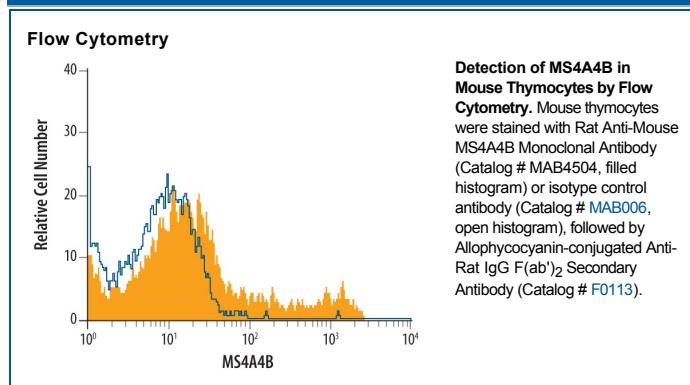
Species Reactivity	Mouse
Specificity	Detects mouse MS4A4B. Stains mouse MS4A4B transfectants but not irrelevant transfectants.
Source	Monoclonal Rat IgG _{2A} Clone # 444008
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with mouse MS4A4B Met1-Val226 Accession # NP_068364
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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 µg/10 ⁶ cells	See Below
CytoF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.