

DESCRIPTION

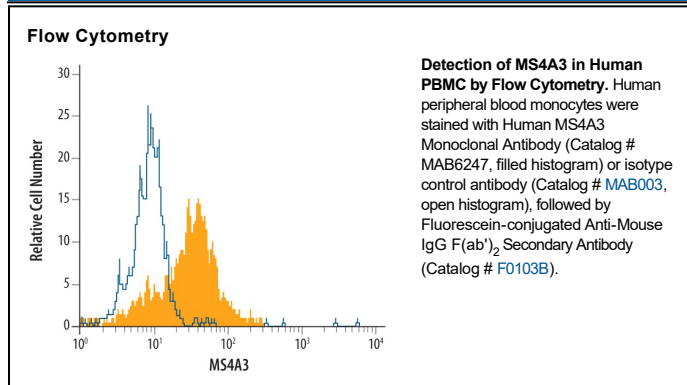
Species Reactivity	Human
Specificity	Detects human MS4A3 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 489433
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human MS4A3 Accession # NP_006129
Formulation	Lyophilized 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	2.5 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	Sterile PBS to a final concentration of 0.5 mg/mL.
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

MS4A3, also known as HTm4, is an intracytoplasmic membrane protein that is a member of the MS4A family of four-transmembrane proteins that also includes CD20 and FcεRIβ. It is a cell cycle regulator expressed in the perinuclear area of human hematopoietic cells. The C-terminal region of MS4A3 interacts with cdc-associated phosphatase (KAP), enhancing its activity on cyclin-dependent kinase 2 (cdk2) and facilitating G(0)/G(1) arrest. The combined non-membrane segments of the 214 amino acid (aa), 25 kDa human MS4A3 show 53% and 52% aa identity with corresponding regions of mouse and rat MS4A3, respectively.