

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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	Human peripheral blood monocytes

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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 FcεR1β. 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.

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