

## DESCRIPTION

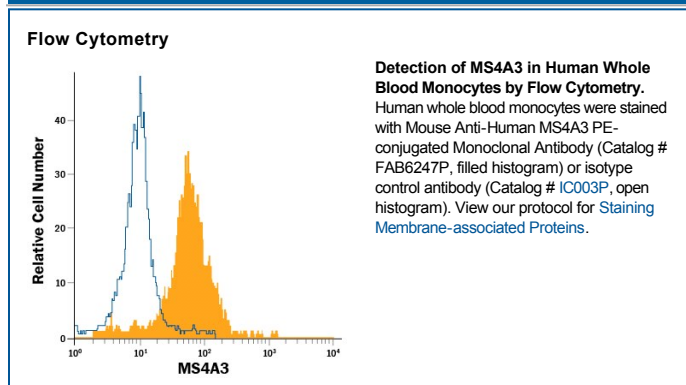
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MS4A3 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 489433
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human MS4A3 Accession # NP_006129
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	Supplied 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

MS4A3, also known as HTm4, is a membrane protein that is a member of the MS4A family of four-transmembrane proteins that also includes CD20 and Fc $\epsilon$ R1 $\beta$ . MS4A3 is a cell cycle regulator expressed in the perinuclear area of human basophils, eosinophils, early embryonic neural progenitors, splenic red pulp macrophages, monocytes and bile duct plus pancreatic duct epithelium. 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), 22-25 kDa human MS4A3 show 53% and 52% aa identity with corresponding regions of mouse and rat MS4A3, respectively.