

DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MS4A1/CD20. Stains human MS4A1/CD20 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 396444
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human MS4A1/CD20 Met1-Pro297 Accession # P11836
<b>Conjugate</b>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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.

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

**DATA**

<p><b>Flow Cytometry</b></p> <p><b>Detection of MS4A1/CD20 in Human Peripheral Blood Lymphocytes by Flow Cytometry.</b> Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD19 PE-conjugated Monoclonal Antibody (Catalog # FAB4867P) and either (A) Mouse Anti-Human MS4A1/CD20 APC-conjugated Monoclonal Antibody (Catalog # FAB4225A) or (B) Mouse IgG<sub>1</sub> Allophycocyanin Isotype Control (Catalog # IC002A). View our protocol for <a href="#">Staining Membrane-associated Proteins</a>.</p>	<p><b>Flow Cytometry</b></p> <p><b>Detection of MS4A1/CD20 in HEK293 Human Cell Line Transfected with Human MS4A1/CD20 and eGFP by Flow Cytometry.</b> HEK293 human embryonic kidney cell line transfected with human MS4A1/CD20 and eGFP was stained with either (A) Mouse Anti-Human MS4A1/CD20 APC-conjugated Monoclonal Antibody (Catalog # FAB4225A) or (B) Mouse IgG<sub>1</sub> Allophycocyanin Isotype Control (Catalog # IC002A). View our protocol for <a href="#">Staining Membrane-associated Proteins</a>.</p>
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**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**

CD20 is a 297 amino acid (aa) non-glycosylated type III membrane protein that is the founding member of the MS4A tetraspanning protein family. It is expressed on pre-B, naïve and mature B lymphocytes and B-cell lymphomas. CD20 is associated with lipid rafts upon crosslinking, and appears to play a role in regulation of ion influx. The one extracellular segment of 48 aa shows 65% aa identity between human and mouse CD20.