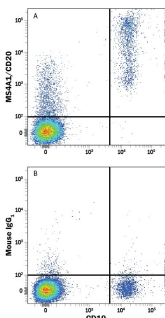
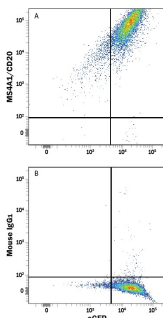


DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human MS4A1/CD20. Stains human MS4A1/CD20 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG ₁ Clone # 396444
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human MS4A1/CD20 Met1-Pro297 Accession # P11836
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	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
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA

<p>Flow Cytometry</p>  <p>Detection of MS4A1/CD20 in Human Peripheral Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD19 APC-conjugated Monoclonal Antibody (Catalog # FAB4867A) and either (A) Mouse Anti-Human MS4A1/CD20 PE-conjugated Monoclonal Antibody (Catalog # FAB4225P) or (B) Mouse IgG₁ Phycoerythrin Isotype Control (Catalog # IC002P). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Flow Cytometry</p>  <p>Detection of MS4A1/CD20 in HEK293 Human Cell Line Transfected with Human MS4A1/CD20 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human MS4A1/CD20 and eGFP was stained with and either (A) Mouse Anti-Human MS4A1/CD20 PE-conjugated Monoclonal Antibody (Catalog # FAB4225P) or (B) Mouse IgG₁ Phycoerythrin Isotype Control (Catalog # IC002P). View our protocol for Staining Membrane-associated Proteins.</p>
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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

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.