Human CD20 Antibody
Monoclonal Mouse IgG1 Clone # 396444
Catalog Number: MAB4225

DESCRIPTION
Species Reactivity Human
Source Monoclonal Mouse IgG1 Clone # 396444
Purification Protein A or G purified from hybridoma culture supernatant
Immunogen NS0 mouse myeloma cell line transfected with human CD20 Met1-Pro297
Accession # P11836
Formulation Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

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Recommended Concentration
Sample
Flow Cytometry 0.25 µg/10^6 cells See Below
Immunohistochemistry 5-25 µg/mL See Below
CyTOF-ready Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

DATA
Flow Cytometry Detection of MS4A1/CD20 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with either (A) Mouse Anti-Human MS4A1/CD20 Monoclonal Antibody (Catalog # MAB4225) or (B) Mouse IgG1 Isotype Control (Catalog # MAB002) followed by anti-Mouse IgG APC-conjugated Secondary Antibody (Catalog # F0101B) and Mouse Anti-Human CD19 PE-conjugated Monoclonal Antibody (Catalog # FAB4867P). Staining was performed using our Staining Membrane-associated Proteins protocol.

Immunohistochemistry CD20 in Human Leukemia. CD20 was detected in immersion fixed paraffin-embedded sections of human leukemia using Mouse Anti-Human CD20 Monoclonal Antibody (Catalog # MAB4225) at 15 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE
Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.
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.
- 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
CD20 is a 297 amino acid (aa) non-glycosylated type III membrane protein that is the founding member of the MS4A tetraspanin 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 sequence identity between human and mouse CD20.