

Rabbit anti-Human CD20 Polyclonal Antibody | anti-MS4A1 antibody

Anti-CD20 Antibody

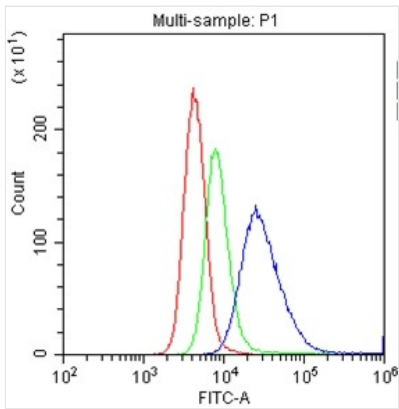
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45694	Rabbit	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

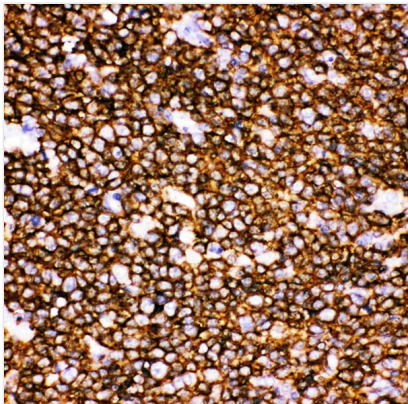
CD20; Polyclonal Antibody; Anti-CD20 Antibody; B-lymphocyte antigen CD20; membrane-spanning 4-domains; subfamily A; member 1; APY antibody; ATOPY antibody; B lymphocyte antigen CD20 antibody; B Lymphocyte Cell Surface Antigen B1 antibody; B-lymphocyte antigen CD20 antibody; B-lymphocyte cell-surface antigen B1 antibody; B-lymphocyte surface antigen B1 antibody; B1 antibody; Bp 35 antibody; Bp35 antibody; CD 20 antibody; CD20 antibody; CD20 antigen antibody; CD20 receptor antibody; CD20_HUMAN antibody; Fc epsilon receptor I beta chain antibody; Fc Fragment of IgE high affinity I receptor for beta polypeptide antibody; FCER1B antibody; FCERI antibody; High affinity immunoglobulin epsilon receptor subunit beta antibody; IgE Fc receptor subunit beta antibody; IGEL antibody; IGER antibody; IGHER antibody; LEU16 antibody; leukocyte surface antigen Leu 16 antibody; Leukocyte surface antigen Leu-16 antibody; Ly44 antibody; Membrane spanning 4 domains subfamily A member 2 antibody; Membrane-spanning 4-domains subfamily A member 1 antibody; MS4A1 antibody; anti-MS4A1 antibody

PRODUCT SPECIFICATIONS

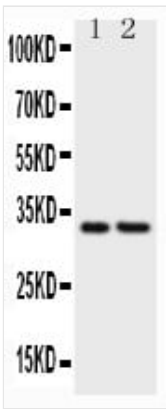
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	297
Applicable Applications for anti-MS4A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human CD20 recombinant protein (Position: M1-D261). Human CD20 shares 75% amino acid (aa) sequence identity with mouse CD20.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



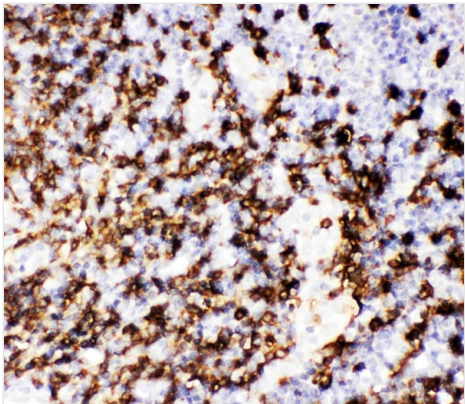
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of U937 cells using anti-CD20 antibody (AAA45694). Overlay histogram showing U937 cells stained with AAA45694 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD20 Antibody (AAA45694, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight 488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of CD20 using anti-CD20 antibody (AAA45694). CD20 was detected in paraffin-embedded section of Human Tonsil Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD20 Antibody (AAA45694) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 3. Western blot analysis of CD20 using anti-CD20 antibody (AAA45694). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: RAJI Whole Cell Lysate. Lane 2: CEM Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD20 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD20 at approximately 33KD. The expected band size for CD20 is at 33KD.



IHC (Immunohistochemistry)
Figure 1. IHC analysis of CD20 using anti-CD20 antibody (AAA45694). CD20 was detected in paraffin-embedded section of Human Tonsil Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD20 Antibody (AAA45694) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-MS4A1 antibody

Description: Rabbit IgG polyclonal antibody for B-lymphocyte antigen CD20(MS4A1) detection. Tested with WB, IHC-P in Human.

Background: CD20, also known as MS4A1, is an activated-glycosylated phosphoprotein expressed on the surface of all B-cells beginning at the pro-B phase (CD45R+, CD117+) and progressively increasing in concentration until maturity. It is mapped to 11q12.2. This gene encodes a member of the membrane-spanning 4A gene family. The function of CD20 is to enable optimal B-cell immune response, specifically against T-independent antigens. It is suspected that CD20 acts as a calcium channel in the cell membrane. What's more, this protein may be involved in the regulation of B-cell activation and proliferation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115968
NCBI GeneID	931
UniProt Accession #	P11836; P08984; Q13963; A6NMS4; B4DT24
Molecular Weight	14,581 Da
NCBI Official Full Name	B-lymphocyte antigen CD20
NCBI Official Synonym Full Names	membrane-spanning 4-domains, subfamily A, member 1
NCBI Official Symbol	MS4A1
NCBI Official Synonym Symbols	B1; S7; Bp35; CD20; CVID5; MS4A2; LEU-16
NCBI Protein Information	B-lymphocyte antigen CD20; CD20 antigen; CD20 receptor; leukocyte surface antigen Leu-16; B-lymphocyte cell-surface antigen B1
UniProt Protein Name	B-lymphocyte antigen CD20
UniProt Gene Name	MS4A1
UniProt Synonym Gene Names	CD20
UniProt Entry Name	CD20_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd20-antibody-immunohistochemistry-western-blot-elisa/45694>