

Mouse anti-Human CD20 Monoclonal Antibody | anti-CD20 antibody

Mouse Anti Human CD20: Amethyst Orange

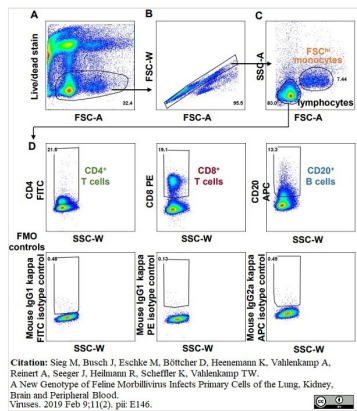
CATALOG # AAA50399	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD20; Monoclonal Antibody; Mouse Anti Human CD20: Amethyst Orange; CD20 antibody; 2H7; anti-CD20 antibody

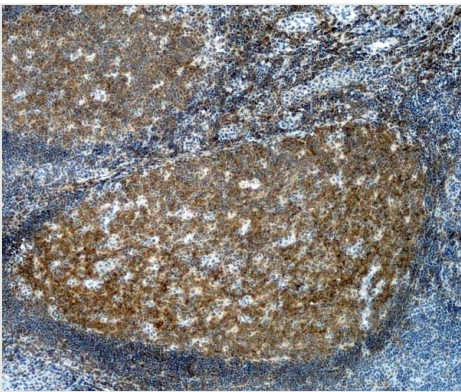
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	2H7
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG conjugated to Amethyst Orange - Liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	297
Applicable Applications for anti-CD20 antibody	FCM/FACS (Flow Cytometry)
Preservative Stabilizers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Buffer Solution	Phosphate Buffered Saline
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. This product contains a precipitate we recommend microcentrifugation before use.



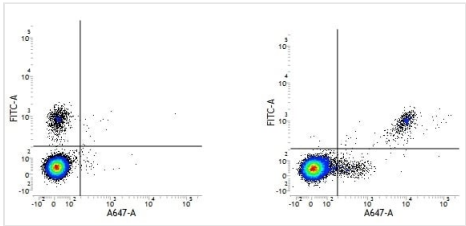
Application Data

APC Conjugated Mouse anti Human CD20 antibody, clone 2H7 used as part of a panel of antibodies to identify lymphocyte populations in feline peripheral blood by flow cytometry. Image caption: Gating strategy used in flow cytometric analyses of PBMC. Representative pseudocolor plots are shown. After exclusion of dead cells (A) and doublets (B), gating on lymphocytes and monocytes was performed according to their forward and side scattering (FSC/SSC) properties (C). (D) Among lymphocytes CD4⁺ T cells, CD8⁺ T cells and CD20⁺ B cells (upper panel) were gated according to the appropriate Fluorescence-minus-one (FMO) controls (lower panel). From: Sieg M, Busch J, Eschke M, Böttcher D, Heenemann K, Vahlenkamp A, Reinert A, Seeger J, Heilmann R, Scheffler K, Vahlenkamp TW. A New Genotype of Feline Morbillivirus Infects Primary Cells of the Lung, Kidney, Brain and Peripheral Blood. Viruses. 2019 Feb 9;11(2). pii: E146. doi: 10.3390/v11020146. This image is from an open access article distributed under the terms of the Creative Commons Attribution License.



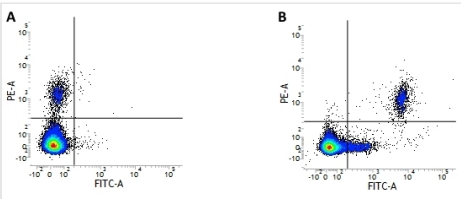
Application Data

Mouse anti Human CD20 antibody, clone 2C7 in an immunohistochemical analysis of acetone fixed, frozen human tonsil section detected using the Histar Detection Kit



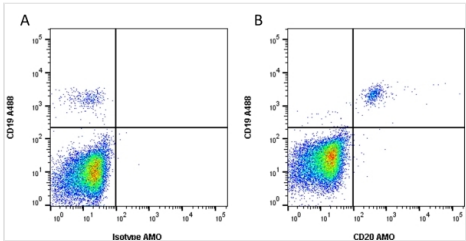
Application Data

Figure A. FITC conjugated Mouse anti Human CD19 and Alexa Fluor 647 conjugated Mouse IgG2b isotype control. Figure B. FITC conjugated Mouse anti Human CD19 and Alexa Fluor 647 conjugated Mouse anti Human CD20. All experiments performed on human peripheral blood lymphocytes in the presence of Human SeroBlock.



Application Data

Figure A. RPE conjugated Mouse anti Human CD19 and FITC conjugated Mouse IgG2b isotype control. Figure B. RPE conjugated Mouse anti Human CD19 and FITC conjugated Mouse anti Human CD20. All experiments performed on red cell lysed human peripheral blood gated on lymphocytes in the presence of Human SeroBlock.



Application Data

Figure A. Alexa Fluor 488 conjugated Mouse anti Human CD19 and Amethyst Orange conjugated Mouse IgG2b isotype control. Figure B. Alexa Fluor 488 conjugated Mouse anti Human CD19 and Amethyst Orange conjugated Mouse anti Human CD20. All experiments performed on human blood gated on live single lymphocytes, in the presence of 10% human serum. Data acquired on the ZE5 Cell Analyzer

ADDITIONAL INFORMATION

Related Product Information for anti-CD20 antibody	Mouse anti Human CD20 antibody, clone 2H7 recognizes the human CD20 cell surface antigen, a 33-37 kDa non-glycosylated phosphoprotein. The CD20 antigen is expressed during pre-B-cell development. It is present on both resting and activated B-cells but is lost prior to terminal B-cell differentiation into plasma cells. The epitope recognized by clone 2H7 has been mapped to the following sequence found in the large extracellular loop of human CD20: YNCEPANPSEKNSPST. Furthermore it appears that Mouse anti Human CD20 antibody, clone 2H7 only recognizes human CD20 in its native oligomeric form (Polyak et al. 2002).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115968
NCBI GeneID	931
UniProt Accession #	P11836
NCBI Official Full Name	B-lymphocyte antigen CD20
NCBI Official Synonym Full Names	membrane spanning 4-domains A1
NCBI Official Symbol	MS4A1
NCBI Official Synonym Symbols	B1; S7; Bp35; CD20; CVID5; MS4A2; LEU-16
NCBI Protein Information	B-lymphocyte antigen CD20
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.