

Mouse anti-Human CD19 Monoclonal Antibody | anti-CD19 antibody

CD19 (B-Lymphocyte Marker)

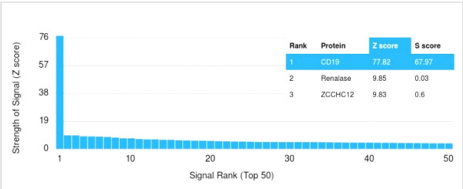
CATALOG # AAA215292	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA
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PRODUCT SYNONYMS

CD19; Monoclonal Antibody; CD19 (B-Lymphocyte Marker); B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; CVID3; Leu-12; T-cell surface antigen Leu-12; anti-CD19 antibody

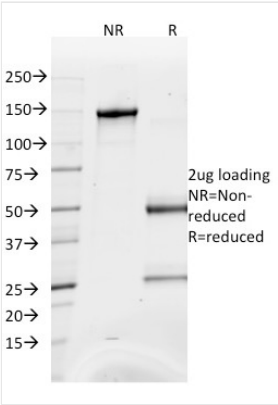
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CD19/3116
Specificity	CD19 is a transmembrane glycoprotein that contains two extracellular immunoglobulin-like domains. CD19 is present in both benign and malignant B-cells and is considered to be the most reliable surface marker of this lineage over a wide range of maturational stages. In normal lymphoid tissue, CD19 is observed in germinal centers, in mantle zone cells, and in scattered cells of the inter-follicular areas. Anti-CD19 exhibits an overall immunoreactivity pattern similar to those of the antibodies against CD20 and CD22. However, in contrast to CD20, expression of CD19 is continuous throughout B-cell development and through terminal differentiation of B-cells into plasma cells. Anti-CD19 positivity is seen in the vast majority of B-cell neoplasms commonly at a lower intensity than normal B-cell counterparts. Plasma cell neoplasms are nearly always negative, as are T-cell neoplasms.
Purity/Purification	Purified Ab WITHOUT BSA and Azide
Form/Format	Purified Ab WITHOUT BSA and Azide at 1.0mg/mL
Sequence Length	557
Applicable Applications for anti-CD19 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Positive Control	Raji cells (FC). Tonsil, Lymph Node or Spleen (IHC).
Immunogen	Recombinant fragment of human CD19 protein (around aa96-281) (exact sequence is proprietary)
Cellular Localization	Cell membrane, Membrane raft
Research Areas	B Cell Markers, Cardiovascular, Complement System, Hematopoietic Stem Cells, Immune checkpoint, Immunology, Infectious Disease, Mesenchymal Stem Cell Differentiation, Signal Transduction
Preparation and Storage	Antibody without azide - store at -20 to -80 degrees C. Non-hazardous. No MSDS required.



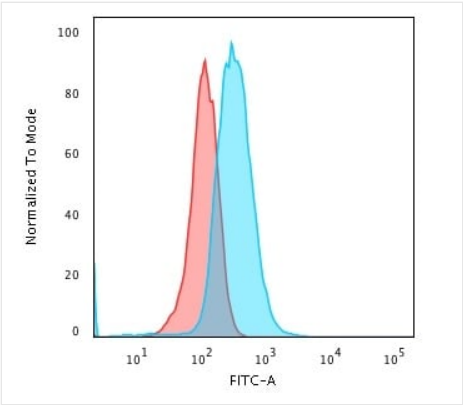
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD19 Monospecific Mouse Monoclonal Antibody (CD19/3116). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



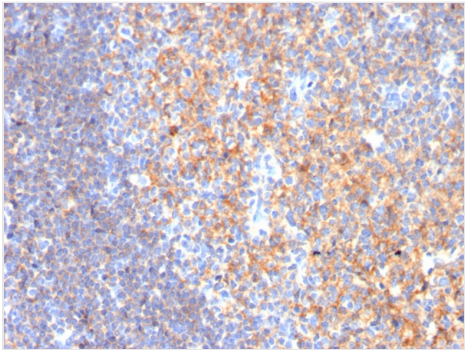
SDS_PAGE

SDS-PAGE Analysis Purified CD19 Monospecific Mouse Monoclonal Antibody (CD19/3116). Confirmation of Integrity and Purity of Antibody.



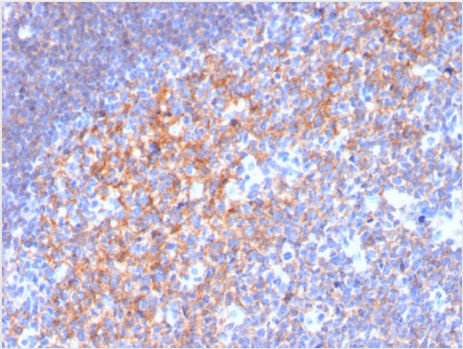
FCM/FACS (Flow Cytometry)

Flow Cytometric Analysis of Raji cells using CD19 Monospecific Mouse Monoclonal Antibody (CD19/3116) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with CD19 Monospecific Mouse Monoclonal Antibody (CD19/3116).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with CD19 Monospecific Mouse Monoclonal Antibody (CD19/3116).

ADDITIONAL INFORMATION

References	Bregni, M., et al.1989. Blood 73: 753-762
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NCBI AND UNIPROT INFORMATION

NCBI GI #	296010921
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NCBI GeneID	930
NCBI Accession #	NP_001171569.1
NCBI GenBank Nucleotide #	NP_001171569.1
UniProt Accession #	P15391
Molecular Weight	95kDa
NCBI Official Full Name	B-lymphocyte antigen CD19 isoform 1
NCBI Official Synonym Full Names	CD19 molecule
NCBI Official Symbol	CD19
NCBI Official Synonym Symbols	B4; CVID3
NCBI Protein Information	B-lymphocyte antigen CD19
UniProt Protein Name	B-lymphocyte antigen CD19
UniProt Gene Name	CD19
UniProt Entry Name	CD19_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://www.aaabiotech.com/monoclonal/cd19-antibody-clone-cd19-3116-immunohistochemistry-flow-cytometry-elisa/215292>