

Mouse CD22/BL-CAM Monoclonal Antibody | anti-CD22 antibody

CD22/BL-CAM (B-Cell Marker)

CATALOG # AAA214586	HOST Mouse	APPLICATIONS Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD22/BL-CAM; Monoclonal Antibody; CD22/BL-CAM (B-Cell Marker); B-lymphocyte cell adhesion molecule (BL-CAM); B-cell receptor CD22; CD22; Lectin 2; Lyb8; Sialic acid-binding Ig-like lectin 2 (Siglec-2); SIGLEC2; T-cell surface antigen Leu-14; anti-CD22 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b / Kappa
Clone Number	BLCAM/1796
Specificity	Recognizes a protein of 130-140kDa, identified as CD22 (also known as BL-CAM). CD22 expression is restricted to normal and neoplastic B cells and is absent from other haemopoietic cell types. In B-cell ontogeny, CD22 is first expressed in the cytoplasm of pro-B and pre-B cells, and on the surface as B cells mature to become IgD+. It is not expressed by plasma cells, CD22 is found highly expressed in follicular mantle and marginal zone B-cells, and while germinal center B-cells are relatively weak. CD22 is a member of the immunoglobulin superfamily and serves as an adhesion receptor for sialic acid-bearing ligands expressed on erythrocytes and all leukocyte classes. It also associates with tyrosine kinases and play a role in signal transduction and B-cell activation.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	759
Applicable Applications for anti-CD22 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant fragment of human CD22 protein (around aa 52-178) (exact sequence is proprietary)
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Lymph Node or Spleen (IHC)., Raji or Ramos cells (IF/FACS). Raji cell lysate (WB). Human tonsil
Research Areas	B Cell Markers, Cardiovascular, Dendritic Cell Marker, Hematopoietic Stem Cells, Immunology, Lymphatic
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD22 Mouse Monoclonal Antibody (BLCAM/1796) 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, σ 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, σ 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 be 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.



WB (Western Blot)

Western Blot analysis of Raji and Ramos cell lysates using CD22 Mouse Monoclonal Antibody. (BLCAM/1796).



WB (Western Blot)

Western Blot Analysis of human Raji cell lysate using CD22 Mouse Monoclonal Antibody (BLCAM/1796).



IF (Immunofluorescence)

Immunofluorescence staining of paraformaldehyde-fixed Ramos cells with CD22 Mouse Monoclonal Antibody (BLCAM/1796) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are labeled with Reddot (Red).



FCM/FACS (Flow Cytometry)

Flow Cytometric Analysis of Ramos cells using CD22 Mouse Monoclonal Antibody (BLCAM/1796) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red)



SDS-PAGE

SDS-PAGE Analysis Purified CD22 Mouse Monoclonal Antibody (BLCAM/1796). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	Sato S et al. CD22 negatively and positively regulates signal transduction through the B lymphocyte antigen receptor. Semin Immunol 1998, 10:287-297.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	297374825
NCBI GeneID	933
NCBI Accession #	NP_001172028.1
NCBI GenBank Nucleotide #	NM_001185099.1
UniProt Accession #	P20273; O95699; O95701; O95702; O95703; Q01665; Q32M46; Q92872; Q92873; Q9UQA6; F5GYU4; F5H7U3
Molecular Weight	130-140kDa
NCBI Official Full Name	B-cell receptor CD22 isoform 2
NCBI Official Synonym Full Names	CD22 molecule
NCBI Official Symbol	CD22
NCBI Official Synonym Symbols	SIGLEC2; SIGLEC-2
NCBI Protein Information	B-cell receptor CD22

UniProt Protein Name	B-cell receptor CD22
UniProt Gene Name	CD22
UniProt Synonym Gene Names	SIGLEC2; BL-CAM; Siglec-2

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/monoclonal/cd22-bl-cam-antibody-clone-blcam-1796-western-blot-immunofluorescence-flow-cytometry-elisa/214586>