

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

CD22/BL-CAM (B-Cell Marker)

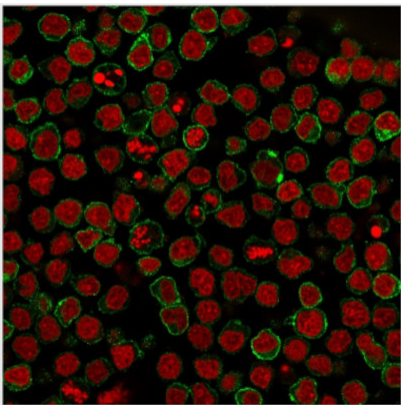
CATALOG # AAA23895	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS ELISA, Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

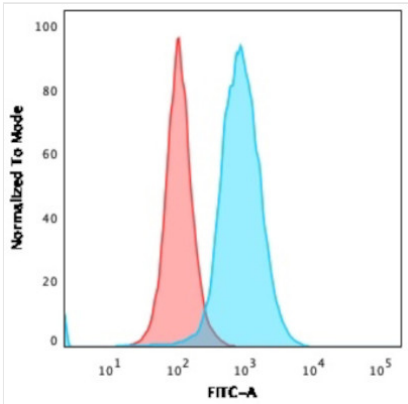
CD22/BL-CAM; Monoclonal Antibody; CD22/BL-CAM (B-Cell Marker); B-lymphocyte cell adhesion molecule (BL-CAM); B-cell receptor CD22; CD22; Lectin 2; Lyb8; Sialic acid-binding Ig-like lectin 2 (Siglec-2); SIGLEC2; T-cell surface antigen Leu-14; anti-CD22 antibody

PRODUCT SPECIFICATIONS

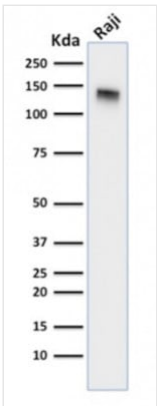
Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	BLCAM/1795
Specificity	Recognizes a protein of 130-140kDa, identified as CD22 (also known as BL-CAM). CD22 expression is restricted to normal and neoplastic B cells and is absent from other haemopoietic 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	1.0mg/ml of Ab purified from Bioreactor Concentrate by Protein A/G.
Sequence Length	759
Applicable Applications for anti-CD22 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA) Flow Cytometry (1-2ug/million cells) Western Blot (1-2ug/ml) Immunofluorescence (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined
Immunogen	Recombinant fragment of human BL-CAM/CD22 protein (around aa 52-178)
Cellular Localization	Cell Surface
Hu-chromosome Location	19q13.1
Positive Control	Raji, Daudi, IM9, JY25 and human peripheral blood lymphocytes. Human Tonsil, Lymph Node or Spleen.
Preparation and Storage	Antibody without azide - store at -20°C to -80°C. Non-hazardous. No MSDS required.



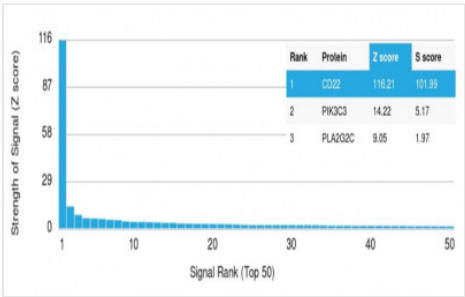
IF (Immunofluorescence)
Immunofluorescent staining of paraformaldehyde-fixed Ramos cells using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795) followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.



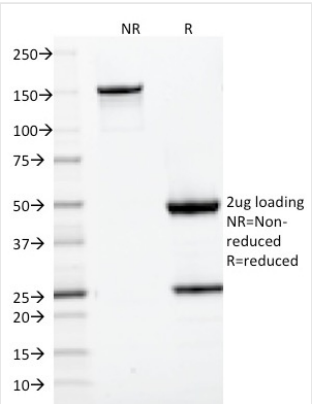
FCM (Flow Cytometry)
Flow Cytometric Analysis of paraformaldehyde-fixed MOLT4 cells. CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



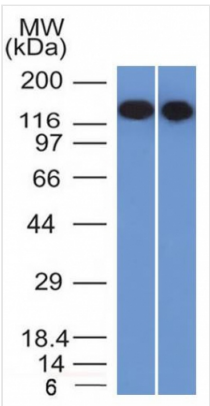
WB (Western Blot)
Western Blot Analysis of Raji cell lysate using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).



ELISA
Analysis of Protein Array containing more than 19,000 full-length human proteins using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795) 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 HuProtTM 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 HuProtTM 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 CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795). Confirmation of Purity and Integrity of Antibody



WB (Western Blot)
Western Blot Analysis of Raji and Ramos Cell Lysates using CD22 Mouse Monoclonal Antibody (BLCAM/1795).

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-1795-western-blot-immunohistochemistry-elisa/23895>