

## CD22 / BL-CAM (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone BLCAM/1795]

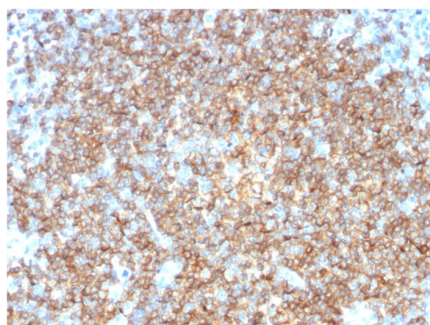
Catalog No	Format	Size
933-MSM5-P0	Purified Ab with BSA and Azide	200ug/ml
933-MSM5-P1	Purified Ab with BSA and Azide	200ug/ml
933-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

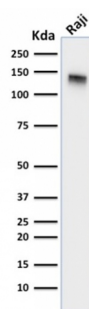
Product Details	
Clone	BLCAM/1795
Gene Name	CD22
Immunogen	Recombinant fragment (around aa52-178) of human BL-CAM/CD22 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	130-140kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	lymph node or spleen., MOLT4 and human peripheral blood lymphocytes. Tonsil, Raji, Ramos

*\*Optimal dilution for a specific application should be determined.*

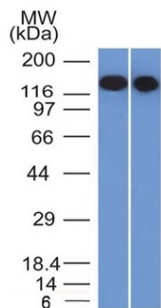
### Product Images for CD22 / BL-CAM (B-Cell Marker) Antibody



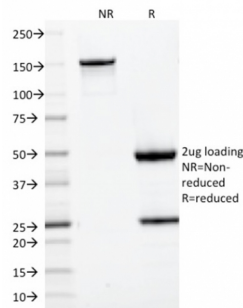
Formalin-fixed, paraffin-embedded human Tonsil stained with CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).



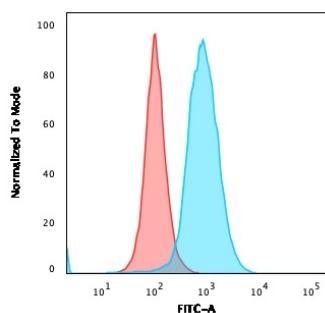
Western Blot Analysis of Raji cell lysate using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).



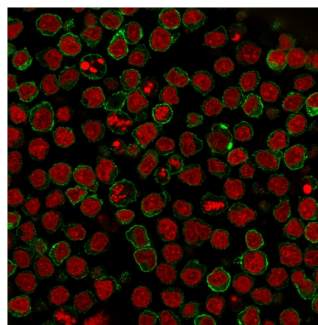
Western Blot Analysis of Raji and Ramos cell lysates using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).



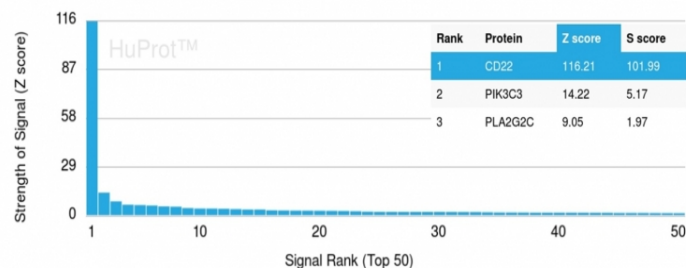
SDS-PAGE Analysis Purified CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795). Confirmation of Purity and Integrity of Antibody.



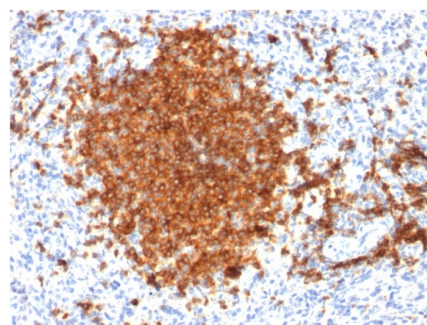
Flow Cytometric Analysis of paraformaldehyde-fixed MOLT4 cells. CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



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.



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 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 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.



Formalin-fixed, paraffin-embedded human Spleen stained with CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).

### Specificity & Comments

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.

### Research Areas

B Cell Markers, Cardiovascular, Dendritic Cell Marker, Hematopoietic Stem Cells, Immunology

### Known Applications & Suggested Dilutions

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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

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.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.