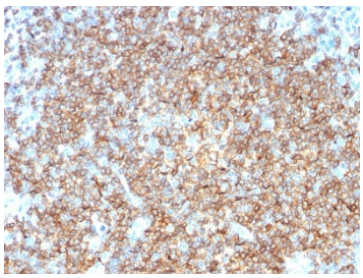
CD22 Antibody [clone BLCAM/1795] (V3693)

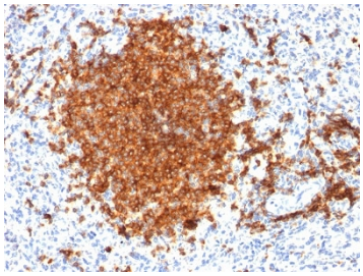
Catalog No.	Formulation	Size
V3693-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3693-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3693SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

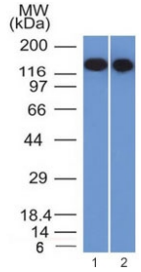
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	BLCAM/1795
Purity	Protein G affinity chromatography
UniProt	P20273
Localization	Cell surface, cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Flow Cytometry : 1-2ug/10^6 cells Western Blot : 1-2ug/ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD22 antibody is available for research use only.



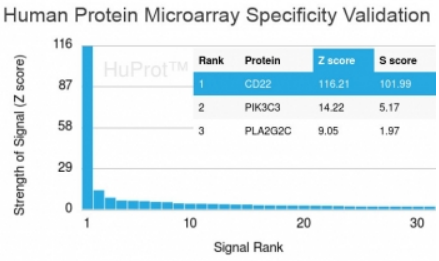
IHC testing of FFPE human tonsil tissue with CD22 antibody (clone BLCAM/1795). HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



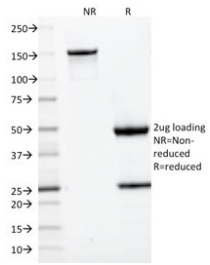
IHC testing of FFPE human spleen tissue with CD22 antibody (clone BLCAM/1795). HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of FFPE human 1) Raji and 2) Ramos cell lysate with CD22 antibody (clone BLCAM/1795). Expected molecular weight: 76/95 kDa (alpha/beta, unmodified), 130-150 kDa (glycosylated).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD22 antibody (clone BLCAM/1795). These results demonstrate the foremost specificity of the BLCAM/1795 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD22 antibody (clone BLCAM/1795) as confirmation of integrity and purity.

Description

CD22 antibody is a useful reagent for detecting CD22, a B cell restricted glycoprotein encoded by the SIGLEC2 gene. CD22 functions as an inhibitory coreceptor, regulating B cell receptor signaling thresholds. It is expressed on the surface of mature B cells but absent from plasma cells, making it an important marker for B cell lineage studies. Because of its dual role as a signaling modulator and diagnostic marker, CD22 is studied in immunology, oncology, and therapeutic development.

CD22 belongs to the sialic acid binding immunoglobulin like lectin family. Its extracellular domain binds sialylated ligands, while its cytoplasmic tail contains immunoreceptor tyrosine based inhibitory motifs. These motifs recruit phosphatases that dampen B cell receptor signaling, preventing overactivation. This regulation ensures immune tolerance and reduces the risk of autoimmunity.

The CD22 antibody clone BLCAM/1795 provides consistent and specific recognition. Clone BLCAM/1795 has been used in research focused on B cell biology, autoimmune disease, and lymphoid malignancies. It is also valuable in translational

contexts, where CD22 serves as a therapeutic target for monoclonal antibody based treatments of B cell leukemias and lymphomas. The antibodyÃ¢Â€Â™s specificity makes it a reliable choice for a wide range of applications.

Research using clone BLCAM/1795 has expanded knowledge of how CD22 maintains immune balance and influences B cell malignancies. Detection of CD22 contributes to the diagnosis and classification of leukemias and lymphomas, while therapeutic targeting of CD22 has produced effective treatments. This antibody continues to support both fundamental and clinical research.

NSJ Bioreagents provides this CD22 antibody to support immunology and oncology research. The protein is also known as SIGLEC2 antibody, B lymphocyte cell adhesion molecule antibody, BL CAM antibody, and sialic acid binding Ig like lectin 2 antibody.

Application Notes

Optimal dilution of the CD22 antibody should be determined by the researcher.

Immunogen

Amino acids 52-178 from the human protein were used as the immunogen for the CD22 antibody.

Storage

Store the CD22 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).