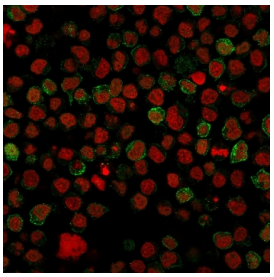
CD22 Antibody for IF / CD22 Immunofluorescence Antibody [clone BLCAM/1796] (V3784)

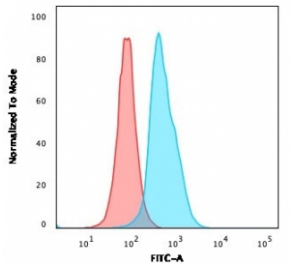
Catalog No.	Formulation	Size
V3784-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3784-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3784SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

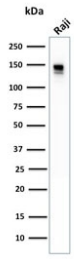
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	BLCAM/1796
Purity	Protein G affinity chromatography
UniProt	P20273
Localization	Cell surface, cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml
Limitations	This CD22 Antibody for IF / CD22 Immunofluorescence Antibody is available for research use only.



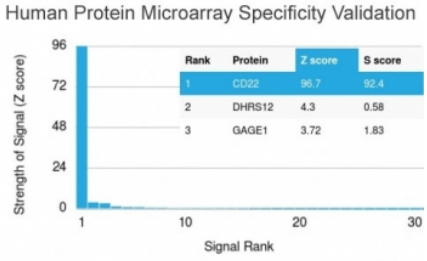
CD22 Antibody for IF. Immunofluorescence analysis of CD22/Siglec-2 expression in human Ramos B cell lymphoma cells using CD22 Immunofluorescence Antibody clone BLCAM/1796. CD22 staining (green) highlights prominent membrane-associated localization outlining B cell surfaces, consistent with its role as a B cell receptor regulatory protein, while Reddot nuclear stain (red) labels nuclei. The staining pattern supports identification of CD22-positive B cell populations and visualization of cell surface receptor distribution in lymphoma-derived cells.



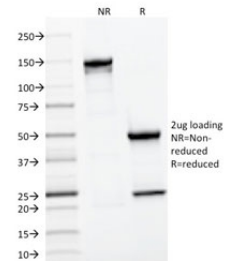
Flow cytometry testing of human Ramos cells with CD22 antibody (clone BLCAM/1796); Red=isotype control, Blue= CD22 antibody.



Western blot testing of human Raji cell lysate with CD22 antibody (clone BLCAM/1796). Expected molecular weight: 76-150 kDa depending on glycosylation level.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD22 antibody (clone BLCAM/1796). These results demonstrate the foremost specificity of the BLCAM/1796 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 for IF / CD22 Immunofluorescence Antibody (clone BLCAM/1796) as confirmation of integrity and purity.

Description

CD22, also known as Siglec-2 and B-cell receptor CD22, is a B cell-restricted transmembrane glycoprotein encoded by the CD22 gene that regulates B cell receptor signaling and surface receptor organization. CD22 Antibody for IF / CD22 Immunofluorescence Antibody (clone BCLAM/1796) is optimized for fluorescence-based detection of CD22, enabling high-resolution visualization of its membrane-associated localization in B lymphocytes. CD22 is predominantly expressed on mature B cells, where it functions as an inhibitory co-receptor that modulates signaling thresholds and maintains immune homeostasis.

CD22 antibody, also referred to as Siglec-2 antibody or B-cell receptor CD22 antibody in the literature, is particularly well suited for immunofluorescence applications requiring high specificity and clean signal resolution. In IF studies, CD22 staining is typically observed along the plasma membrane, outlining B cells with distinct fluorescence signal that enables accurate identification of CD22-positive populations. This clear membrane-associated pattern supports co-localization with other surface markers and facilitates analysis of B cell subsets in heterogeneous samples.

A key strength of clone BCLAM/1796 is its demonstrated specificity in protein microarray validation assays, where binding is restricted to CD22 with minimal off-target interaction across a broad panel of proteins. This level of specificity is critical in immunofluorescence applications, where non-specific staining can obscure localization patterns and reduce interpretability. Microarray-validated performance supports confident detection of CD22 in fluorescence imaging experiments, particularly in complex cellular environments.

Immunofluorescence analysis using a CD22 antibody enables detailed investigation of receptor distribution on the cell surface, including spatial organization and clustering behavior. Fluorescence-based detection allows simultaneous labeling with additional markers, supporting multiplex imaging approaches for immune profiling and cellular interaction studies. This is especially valuable for examining B cell activation states and receptor organization within immune microenvironments.

In cell-based IF assays, CD22 staining with clone BCLAM/1796 produces a defined membrane signal with low background, enabling clear visualization of CD22-positive cells. The mouse monoclonal format supports consistent performance across experiments, contributing to reproducible fluorescence imaging results.

Due to its restricted expression, defined membrane localization, and microarray-confirmed specificity, CD22 remains an important target for immunofluorescence-based analysis of B cell identity and receptor organization. This CD22 antibody supports high-confidence fluorescence imaging for studies of immune cell populations, signaling regulation, and B cell biology.

This antibody is part of the broader CD22 antibody collection for studying B cell markers, immune regulation, and hematologic malignancies.

Application Notes

Optimal dilution of the CD22 Antibody for IF / CD22 Immunofluorescence 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).

Alternate Names

Siglec-2 antibody, B-cell receptor CD22 antibody, B lymphocyte antigen CD22 antibody, CD22 IF antibody, CD22 microarray validated antibody