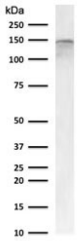
CD22 Antibody for IF / CD22 Intracellular Signaling Antibody [clone CDLA22-1] (V3786)

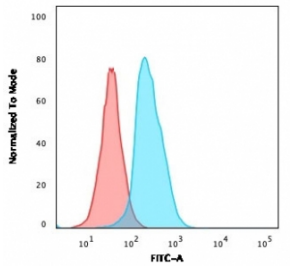
Catalog No.	Formulation	Size
V3786-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3786-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3786SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

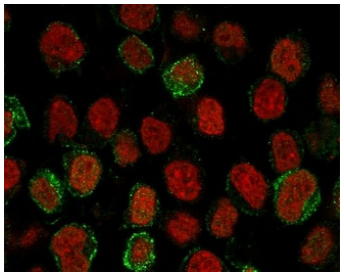
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CDLA22-1
Purity	Protein G affinity chromatography
UniProt	P20273
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This CD22 Antibody for IF / CD22 Intracellular Signaling Antibody is available for research use only.



Western blot testing of human Raji cell lysate with CD22 antibody (clone CDLA22-1). Expected molecular weight: 76-150 kDa depending on glycosylation level.



Flow cytometry testing of human Ramos cells with CD22 antibody (clone CDLA22-1); Red=isotype control, Blue= CD22 antibody.



CD22 Antibody for IF. Immunofluorescence analysis of CD22/Siglec-2 in human Ramos B cell lymphoma cells using CD22 Intracellular Signaling Antibody clone CDLA22-1. Fluorescent signal (green) reveals both membrane-associated staining and distinct punctate cytoplasmic localization consistent with receptor internalization and intracellular trafficking, while Reddot nuclear stain (red) marks nuclei. The observed distribution highlights CD22 involvement in signaling dynamics and receptor cycling within B cell populations.

Description

CD22, also known as Siglec-2 and B-cell receptor CD22, is a B cell-specific transmembrane protein encoded by the CD22 gene that plays a central role in regulating B cell receptor signaling and undergoes dynamic intracellular redistribution following activation. CD22 Antibody for IF / CD22 Intracellular Signaling Antibody (clone CDLA22-1) is designed for immunofluorescence applications that require visualization of both membrane-associated and intracellular CD22, enabling detailed analysis of receptor trafficking and signaling behavior within B cells. CD22 functions as an inhibitory receptor that modulates signaling through recruitment of phosphatases and participates in receptor internalization pathways.

CD22 antibody, also referred to as Siglec-2 antibody or B-cell receptor CD22 antibody in the literature, is particularly valuable in immunofluorescence studies focused on receptor dynamics. In IF applications, CD22 staining may appear as both a membrane-associated signal and a punctate cytoplasmic pattern, reflecting internalized receptor pools within vesicular compartments. This dual localization provides important insight into receptor cycling and intracellular signaling processes.

Immunofluorescence analysis of CD22 enables investigation of how receptor distribution changes in response to cellular activation and ligand engagement. The ability to detect intracellular CD22 pools supports studies of endocytosis, recycling pathways, and signaling attenuation mechanisms. This is especially relevant for understanding how CD22 regulates B cell activation and maintains immune balance.

In permeabilized cell systems, CD22 staining with clone CDLA22-1 often reveals a combination of surface and intracellular fluorescence, allowing visualization of receptor trafficking pathways. This pattern is well suited for co-localization studies with intracellular markers, including endosomal and signaling-associated proteins, providing deeper insight into cellular organization and receptor function.

The mouse monoclonal format of clone CDLA22-1 supports reproducible staining and clear signal detection in immunofluorescence assays. Consistent performance enables reliable comparison across experimental conditions, which is important for studies of dynamic cellular processes.

Given its role in receptor internalization and signaling regulation, CD22 is well suited for immunofluorescence-based investigation of intracellular trafficking and immune signaling pathways. This CD22 antibody supports fluorescence imaging approaches aimed at understanding B cell activation, receptor redistribution, and cellular signaling mechanisms.

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

Application Notes

The stated application concentrations are suggested starting points. Titration of the CD22 Antibody for IF / CD22 Intracellular Signaling Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

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 intracellular antibody, CD22 signaling antibody