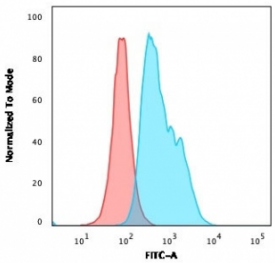
CD22 Antibody for FACS / CD22 Flow Cytometry Antibody [clone RFB4] (V8228)

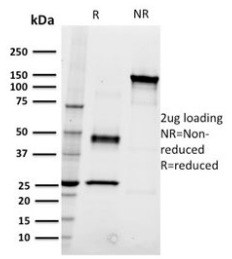
Catalog No.	Formulation	Size
V8228-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8228-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8228SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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	RFB4
Purity	Protein G affinity chromatography
UniProt	P20273
Applications	Flow Cytometry : 1-2ug/million cells in 0.1ml
Limitations	This CD22 Antibody for FACS / CD22 Flow Cytometry Antibody is available for research use only.



CD22 Antibody for FACS. Flow cytometry analysis of CD22/Siglec-2 expression in human Ramos B cell lymphoma cells using CD22 Flow Cytometry Antibody clone RFB4. The CD22 antibody (blue) demonstrates a clear right-shifted population compared to isotype control (red), indicating strong cell surface expression of CD22 on B cells. This distinct separation supports accurate gating and identification of CD22-positive populations, consistent with its role as a B cell lineage marker in flow cytometry-based immune profiling.



SDS-PAGE analysis of purified, BSA-free CD22 Antibody for FACS / CD22 Flow Cytometry Antibody (clone RFB4) 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 functions as a key regulator of B cell receptor signaling and immune cell communication. CD22 Antibody for FACS / CD22 Flow Cytometry Antibody (clone RFB4) is specifically designed for flow cytometry applications, enabling sensitive and quantitative detection of CD22 on the surface of B lymphocytes. CD22 expression is largely confined to mature B cells, including circulating peripheral B cells and lymphoid tissue-resident populations, making it a highly specific marker for B cell identification in suspension-based assays.

CD22 antibody, also referred to as Siglec-2 antibody or B-cell receptor CD22 antibody in the literature, is particularly well suited for flow cytometry due to its stable and accessible cell surface localization. In FACS analysis, CD22 staining produces a clearly defined positive population corresponding to B cells, allowing robust separation from T cells, myeloid cells, and other non-B cell populations. This distinct expression pattern supports accurate gating strategies and enhances confidence in identifying B cell subsets within complex and heterogeneous samples.

Flow cytometry using a CD22 antibody enables high-throughput, single-cell level analysis of immune populations, supporting detailed characterization of B cell frequency, distribution, and phenotypic variation. The ability to detect CD22 without permeabilization preserves native cell structure and viability, making it compatible with downstream applications such as fluorescence-activated cell sorting and functional assays. This is particularly important for studies examining B cell activation, differentiation, and immune response dynamics.

Clone RFB4 is a mouse monoclonal CD22 antibody that provides consistent and reproducible detection of CD22 in flow cytometry assays. The monoclonal format enables specific recognition of the target antigen, resulting in uniform fluorescence intensity and minimal non-specific staining. This contributes to tight population clustering and improved resolution between CD22-positive and negative cells, which is essential for multi-parameter flow cytometry panels and comparative analyses.

In flow cytometry experiments, CD22 staining with clone RFB4 typically yields a strong and well-resolved positive population with low background signal, facilitating reliable gating and subset identification. Its performance supports incorporation into complex immunophenotyping panels, where CD22 can be used alongside other B cell markers to refine analysis of B cell maturation stages and functional states.

Due to its restricted expression, stable surface localization, and strong performance in flow cytometry, CD22 remains an essential marker for quantitative analysis of B cell populations. This CD22 antibody supports precise immune profiling, enabling investigation of B cell biology, immune regulation, and disease-associated changes in cellular composition.

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 FACS / CD22 Flow Cytometry Antibody should be determined by the researcher.

Immunogen

Human tonsil lymphocytes 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 FACS antibody, CD22 flow cytometry antibody