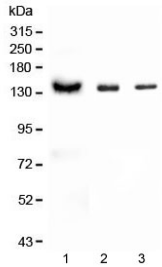
CD22 Antibody for WB / CD22 Western Blot Antibody (R32000)

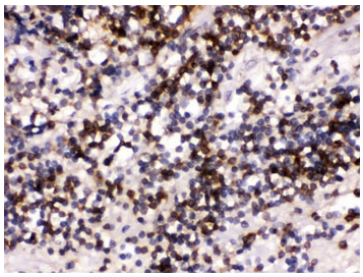
Catalog No.	Formulation	Size
R32000	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

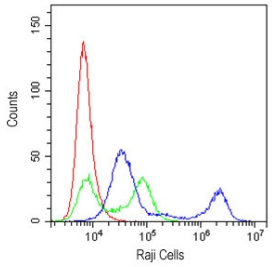
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P20273
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.1-0.5ug/ml IHC (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This CD22 Antibody for WB / CD22 Western Blot Antibody is available for research use only.



CD22 Antibody for WB. Western blot analysis of CD22/Siglec-2 expression using CD22 Western Blot Antibody in multiple species. Lane 1: human Raji lysate, Lane 2: rat thymus lysate, Lane 3: mouse thymus lysate. A band is detected at approximately 130-150 kDa, consistent with the predicted molecular weight of CD22 / CD22 and reflecting its glycosylated form, while lower molecular weight species may correspond to less modified or partially processed forms of the protein. The presence of signal across human, rat, and mouse samples aligns with the known expression of CD22 in B cell populations and supports its use for cross-species analysis of B cell-associated protein expression.



IHC testing of FFPE human tonsil wtih CD22 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Flow cytometry testing of human Raji cells with CD22 antibody at 1ug/million cells (cells blocked with goat sera); Red=cells alone, Green=isotype control, Blue=CD22 antibody.

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 regulator of B cell receptor signaling and immune homeostasis. CD22 Antibody for WB / CD22 Western Blot Antibody is designed for detection of CD22 protein in lysate-based assays, enabling analysis of expression across multiple species and experimental systems. CD22 is primarily expressed in mature B lymphocytes, making it a relevant target for studies of immune cell biology and hematologic disease.

CD22 antibody, also referred to as Siglec-2 antibody or B-cell receptor CD22 antibody in the literature, is well suited for western blot applications requiring reliable detection across different sample types. In WB analysis, CD22 is typically observed as a band corresponding to its glycosylated form, reflecting post-translational modification characteristic of this membrane protein. Detection in B cell-derived lysates such as Raji cells provides a consistent reference for CD22 expression.

This rabbit polyclonal CD22 antibody supports detection of CD22 in human, rat, and mouse lysates, making it particularly useful for comparative studies and cross-species analysis. Western blot results demonstrate clear signal in lymphoid-derived samples, including thymus tissue and B cell lines, aligning with the known expression profile of CD22 in immune cell populations. This broad reactivity expands experimental flexibility for studies spanning multiple model systems.

In western blot assays, CD22 may appear as a diffuse or slightly higher molecular weight band due to glycosylation, which is a well-characterized feature of the protein. This pattern is commonly observed in membrane-associated glycoproteins and should be considered when interpreting band migration. Detection of CD22 in multiple lysates supports its consistent expression in lymphoid tissues and reinforces its role as a B cell-associated protein.

The rabbit polyclonal format enables recognition of multiple epitopes on the CD22 protein, contributing to robust signal detection even in complex lysate samples. This can be advantageous in western blot experiments where protein conformation or modification may affect epitope accessibility.

Due to its broad species reactivity and strong performance in western blot assays, CD22 remains an important target for protein expression analysis in immunology research. This CD22 antibody supports detection of CD22 across diverse biological samples, enabling studies of B cell function, immune signaling, and disease-related expression changes.

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 WB / CD22 Western Blot Antibody should be determined by the researcher.

Immunogen

Amino acids LAILILAICGLKLQRRWKRTQSQQGLQEN of human CD22 were used as the immunogen for the CD22 antibody.

Storage

After reconstitution, the CD22 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Siglec-2 antibody, B-cell receptor CD22 antibody, B lymphocyte antigen CD22 antibody, CD22 WB antibody, CD22 cross-species antibody