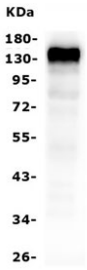
CD22 Antibody for WB / CD22 Western Blot Antibody [clone 5E7.] (RQ5551)

Catalog No.	Formulation	Size
RQ5551	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	5E7.
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P20273
Applications	Western Blot : 0.5-1ug/ml
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 clone 5E7 in human Raji cell 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 potential lower molecular weight species may represent less glycosylated variants of the protein. This banding pattern aligns with the known expression of CD22 in B cell lymphoma-derived cells and supports its use for western blot analysis of B cell-associated protein expression.

Description

CD22, also known as Siglec-2 and B-cell receptor CD22, is a B cell-specific transmembrane glycoprotein encoded by the CD22 gene that plays a key role in regulating B cell receptor signaling. CD22 Antibody for WB / CD22 Western Blot Antibody (clone 5E7) is optimized for precise detection of CD22 protein in lysate-based assays, supporting accurate analysis of B cell-associated protein expression. CD22 is predominantly expressed in mature B lymphocytes, making it a relevant marker for studies of immune cell signaling and hematologic malignancies.

CD22 antibody, also referred to as Siglec-2 antibody or B-cell receptor CD22 antibody in the literature, is widely used in western blot applications to evaluate protein expression in B cell-derived samples. In WB analysis, CD22 is typically detected as a glycosylated protein, which may influence apparent band migration. Detection in Raji cell lysate provides a consistent and well-characterized model for CD22 expression in B cell lymphoma cells.

Clone 5E7 is a mouse monoclonal CD22 antibody designed to provide specific and consistent recognition of the target protein in western blot assays. The monoclonal format supports selective binding to a defined epitope, resulting in clear band detection and reduced background compared to broader-binding reagents. This makes clone 5E7 particularly suitable for experiments requiring precise interpretation of protein expression.

In western blot experiments using Raji lysate, CD22 detection with clone 5E7 produces a defined band consistent with expected expression in B cell-derived systems. This focused detection profile supports use in studies where clarity and reproducibility are important, including comparative protein analysis and validation experiments.

The use of a monoclonal CD22 antibody allows for reproducible performance across experiments, which is important for consistent data generation in western blot workflows. The defined binding characteristics of clone 5E7 support reliable detection of CD22 in controlled experimental settings.

Given its specificity and consistent performance in western blot assays, CD22 remains a valuable target for protein-level analysis of B cell biology and signaling pathways. This CD22 antibody supports focused detection of CD22 in lysate-based systems, enabling detailed study of immune cell protein expression.

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 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 monoclonal antibody