

CD22 Monoclonal antibody

Catalog Number: **66103-1-Ig** **1 Publications**

Basic Information

Catalog Number: 66103-1-Ig	GenBank Accession Number: BC109306	Purification Method: Protein A purification
Size: 3900 µg/ml	GeneID (NCBI): 933	CloneNo.: 7A2F1
Source: Mouse	UNIPROT ID: P20273	Recommended Dilutions: WB 1:2500-1:10000 IHC 1:10000-1:40000 IF 1:200-1:800
Isotype: IgG2a	Full Name: CD22 molecule	
Immunogen Catalog Number: AG17986	Calculated MW: 847 aa, 95 kDa	
	Observed MW: 135 kDa	

Applications

Tested Applications: IF/ICC, IF-P, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF	WB : Ramos cells, Raji cells, Daudi cells
Species Specificity: human	IHC : human tonsillitis tissue, human appendicitis tissue
Cited Species: human	IF : human tonsillitis tissue, Raji cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CD22, also known as Siglec-2 (sialic acid binding Ig-like lectin 2) or BL-CAM (B-lymphocyte cell adhesion molecule), is a 130-140 kDa, B-cell restricted, type I transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. The expression of CD22 is developmentally regulated. It is expressed at low levels in the cytoplasm of pro-B and pre-B cells and present on the cell surface only at mature stages of B-cell differentiation. Cell surface expression is lost during terminal differentiation into plasma cell and after B-cell activation. CD22 is an inhibitory receptor for B-cell receptor (BCR) signalling, preferentially binds to alpha-2,6-linked sialic acid and mediates B-cell B-cell interactions. It plays a crucial role in activation and differentiation of the B-cell.

Notable Publications

Author	Pubmed ID	Journal	Application
Sumeng Wang	38111199	J Biomed Res	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

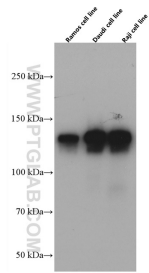
T: 4006900926

E: Proteintech-CN@ptglab.com

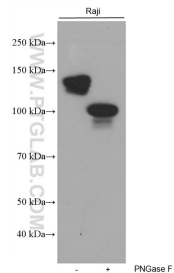
W: ptgcn.com

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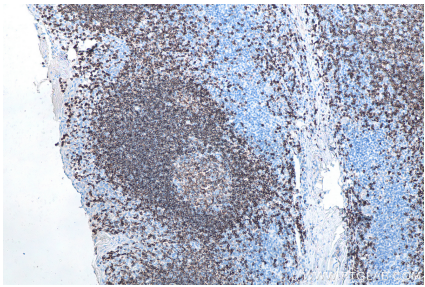
Selected Validation Data



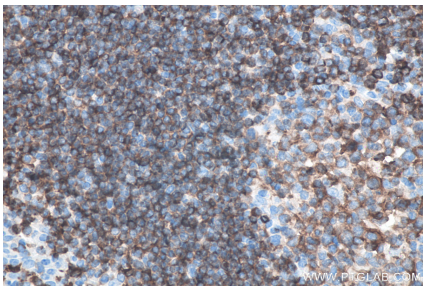
Ramos, Daudi, and Raji cells were subjected to SDS PAGE followed by western blot with 66103-1-Ig (CD22 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



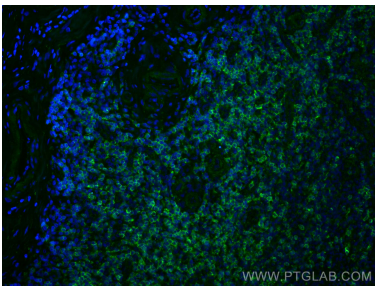
Untreated and PNGase F-treated lysates of Raji cells were subjected to SDS PAGE followed by western blot with 66103-1-Ig (CD22 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



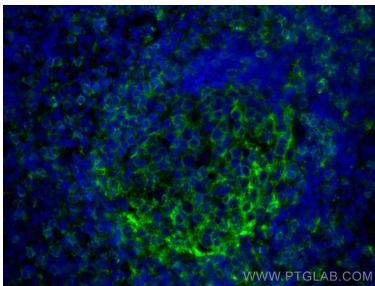
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66103-1-Ig (CD22 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66103-1-Ig (CD22 antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD22 antibody (66103-1-Ig, Clone: 7A2F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD22 antibody (66103-1-Ig, Clone: 7A2F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).