For Research Use Only

CD22 Monoclonal antibody, PBS Only (Capture)

Catalog Number:66103-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
66103-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG17986

GenBank Accession Number:
BC109306

GeneID (NCBI):
933

UNIPROT ID:
P20273

Full Name:
CD22 molecule

Calculated MW:
847 aa, 95 kDa

Observed MW:
135 kDa

Purification Method:
Protein A purification

CloneNo.:
7A2F1

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

66103-1-PBS targets CD22 as part of a matched antibody pair:

MP50311-4: 66103-1-PBS capture and 66103-6-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

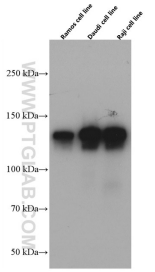
CD22, also known as Siglec-2 (sialic acid binding Ig-like lectin 2) or BL-CAM (B-lymphocyte cell adhesion molecule), is a 130-140 kDa, B-cell restricted, type I transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. The expression of CD22 is developmentally regulated. It is expressed 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.

Storage

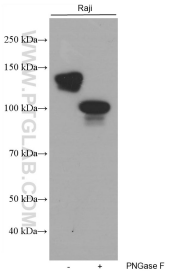
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

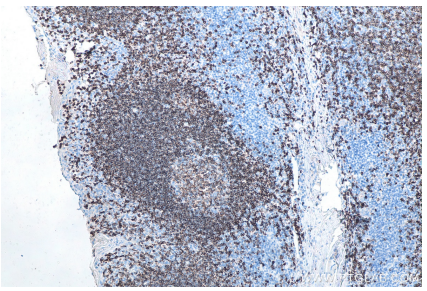
Selected Validation Data



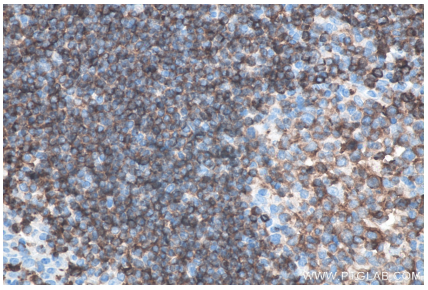
Ramos, Daudi, and Raji cells were subjected to SDS PAGE followed by western blot with 66103-1-Ig (CD22 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



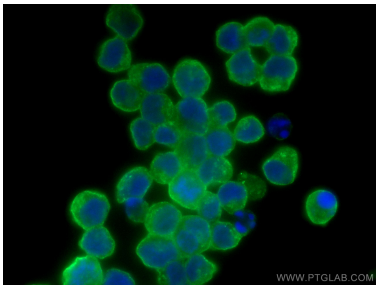
Untreated and PNGase F-treated lysates of Raji cells were subjected to SDS PAGE followed by western blot with 66103-1-Ig (CD22 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



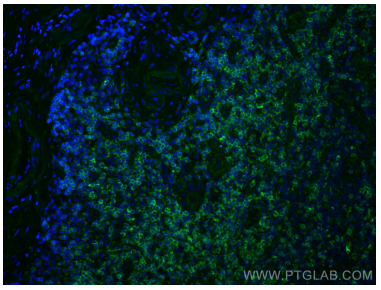
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66103-1-Ig (CD22 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



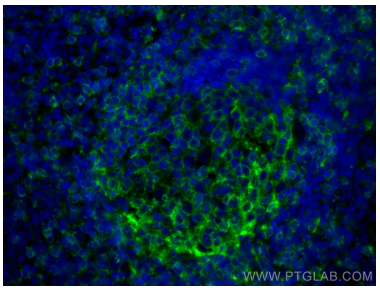
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66103-1-Ig (CD22 antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



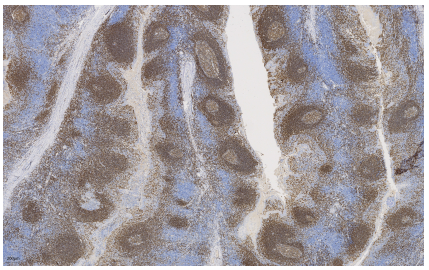
Immunofluorescent analysis of (4% PFA) fixed Raji cells using CD22 antibody (66103-1-Ig, Clone: 7A2F1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



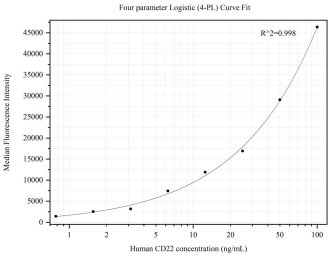
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD22 antibody (66103-1-Ig, Clone: 7A2F1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66103-1-Ig (CD22 antibody) at dilution of 1:20000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66103-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50311-4, CD22 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66103-1-PBS. Detection antibody: 66103-6-PBS. Standard:Ag17986. Range: 0.781-100 ng/mL.