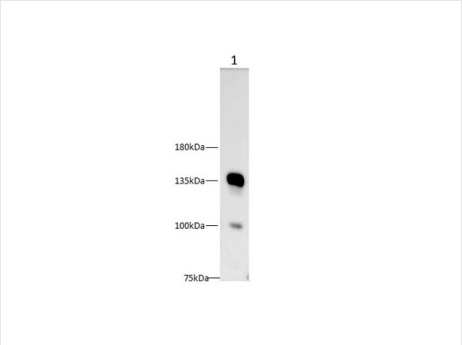
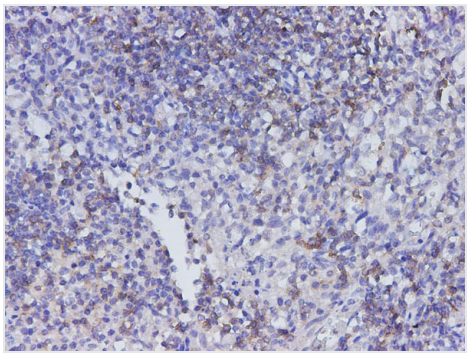
CD22 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD22, Polyclonal Antibody
Full Product Name	CD22 Polyclonal Antibody
Product Gene Name	anti-CD22 antibody
Product Synonym Names	B cell receptor CD22 precursor; B lymphocyte cell adhesion molecule; BL CAM; CD 22; CD22 antigen; CD22 molecule; Lectin 2; Leu14; Lyb8; MGC130020; sialic acid binding Ig like lectin 2; SIGLEC 2; T cell surface antigen Leu 14
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide,1% protective protein and 50% glycerol,pH7.4
Purity/Purification	Antigen Affinity Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C Valid for 12 months. Avoid freeze/thaw cycles.
Molecular Weight	95,348 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (35820072..35838264). Location: 19q13.1
OMIM	107266
3D Structure	ModBase 3D Structure for P20273
Immunogen	Recombinant Human CD22 protein expressed by E coli
Product Categories/Family for anti-CD22 antibody	Polyclonal Antibodies; Primary Antibodies; Polyclonal Antibodies; Cancer; Immunology; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD22 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CD22 antibody	WB: 1:500-1:1000 IHC: 1:200-1:400
Related Product Information for anti-CD22 antibody	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.
Other Notes	Small volumes of anti-CD22 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD22 purchase	MBS2579102 is an antibody targeting CD22. Also known as CD22 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CD22 antibody
Western blot with CD22 Polyclonal antibody at dilution of 1:500.lane 1:Raji whole cell lysate



Immunohistochemistry (IHC) of anti-CD22 antibody
Immunohistochemistry of paraffin-embedded Human tonsil tissue using CD22 Polyclonal Antibody at dilution of 1:350

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD22. It may not necessarily be applicable to this product.

NCBI GI #	297374825
NCBI GeneID	933
NCBI Accession #	NP_001172028.1
UniProt Primary Accession #	P20273
UniProt Secondary Accession #	O95699; O95701; O95702; O95703; Q01665; Q92872; Q92873; Q9UQA6; Q9UQA7; Q9UQA8; F5H7U3
UniProt Related Accession #	P20273
GenBank Nucleotide #	NM_001185099.1
NCBI Official Full Name	B-cell receptor CD22 isoform 2
NCBI Official Synonym Full Names	CD22 molecule
NCBI Official Symbol	CD22
NCBI Official Synonym Symbols	SIGLEC2; SIGLEC-2
UniProt Protein Name	B-cell receptor CD22
UniProt Synonym Protein Names	B-lymphocyte cell adhesion molecule; BL-CAM; Sialic acid-binding Ig-like lectin 2; Siglec-2; T-cell surface antigen Leu-14
Protein Family	B-cell receptor
UniProt Gene Name	CD22
UniProt Synonym Gene Names	SIGLEC2; BL-CAM; Siglec-2
UniProt Entry Name	CD22_HUMAN
NCBI Protein Information	B-cell receptor CD22; BL-CAM; CD22 antigen; T-cell surface antigen Leu-14; B-lymphocyte cell adhesion molecule; sialic acid binding Ig-like lectin 2; sialic acid-binding Ig-like lectin 2

UniProt Comments for CD22	CD22: Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules. Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: integral to plasma membrane; external side of plasma membrane Molecular Function: protein binding; carbohydrate binding Biological Process: cell adhesion
Research Articles on CD22	**1.** In the absence of functional CD22, B cells have a "hyperactivated" phenotype, CD22 dysfunction could contribute to the pathogenesis of autoimmune diseases. (Review)
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