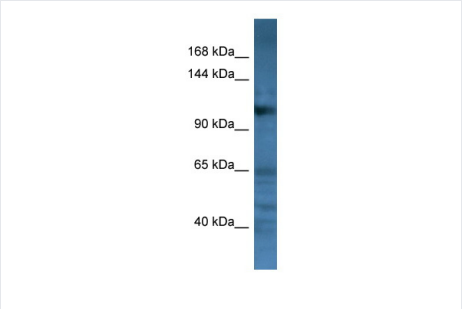
CD22 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD22, Polyclonal Antibody
Full Product Name	CD22 antibody - C-terminal region
Product Gene Name	anti-CD22 antibody
Product Synonym Gene Name	FLJ22814; MGC130020; SIGLEC-2; SIGLEC2
Immunogen Sequence	Synthetic peptide located within the following region: YSALHKRQVG DYENVIPDFP EDEGIHYSEL IQFGVGERPQ AQENVDYVIL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Horse, Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CD22 peptide (MBS3239479) is used for blocking the activity of CD22 antibody (MBS3214542)
Molecular Weight	95kDa
OMIM	107266
3D Structure	ModBase 3D Structure for P20273
Homology	Horse: 79%; Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human CD22
Product Categories/Family for anti-CD22 antibody	Polyclonal; Membrane Protein; Mitochondria; Membrane & Traffic; Disease Related
Applications Tested/Suitable for anti-CD22 antibody	Western Blot (WB)
Related Product Information for anti-CD22 antibody	This is a rabbit polyclonal antibody against CD22. It was validated on Western Blot Target Description: CD22 mediates B-cell B-cell interactions. CD22 may be involved in the localization of B-cells in lymphoid tissues. CD22 binds sialylated glycoproteins; one of which is CD45. CD22 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 CD22 seems to be involved in regulation of B-cell antigen receptor signaling. CD22 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.
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	MBS3214542 is an antibody targeting CD22. Also known as CD22 antibody - C-terminal region. Reactive in Horse, Human. Host: Rabbit.



Western Blot (WB) of anti-CD22 antibody
WB Suggested Anti-CD22 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: Human brain

ADDITIONAL DETAILS

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

NCBI GI #	157168355
NCBI GeneID	933
NCBI Accession #	NP_001762
UniProt Primary Accession #	P20273
UniProt Related Accession #	P20273
GenBank Nucleotide #	NM_001771
NCBI Official Full Name	B-cell receptor CD22 isoform 1
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

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.** Conjugates of these multivalent ligands with auristatin and saporin toxins are efficiently internalized via hCD22 resulting in killing of B-cell lymphoma cells
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