

Recombinant Human CD22 Protein, C-His-tagged

Cat. No. CD22-181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD22 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CD22 (also known as siglec-2) is a member of the sialic acid-binding immunoglobulin-type lectin (Siglec) family of immunomodulatory receptors. CD22 can bind to its ligand α 2,6-linked sialic acid on different cells (trans interaction) as well as on the same cells (cis interaction). CD22 is predominantly expressed on B cells and functions as an inhibitory co-receptor for the B cell receptor (BCR). After BCR ligation, the tyrosine kinase Lyn is activated and phosphorylates two distal of the four ITIM motifs in the intracellular carboxy-terminal region of CD22, which then recruit tyrosine phosphatases, including SHP-1, to the plasma membrane, and in turn, they get tyrosine-phosphorylated and activated to damp the signaling pathways initiated by BCR ligation. CD22 has been actively pursued as a therapeutic target for autoimmune diseases. Due to almost exclusive expression on B cells, it is also actively pursued as a therapeutic target for multiple B cell malignancies.
Molecular Mass	~74 kDa
AA Sequence	DSSKWWFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR LYESTKDGKVPSEQKRVQFLGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWME RIHLNVSERPFPPHIQLPPEIQESQEVTLTCLLNFSYGYPIQLQWLLEGVPMRQAAV

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TSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKHTPKLEI
KVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVTKD
QSGKYCCQVSNDVGPGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSLA
NPLPTNYTWYHNGKEMQGRTEEKVHIPKILPWHAGTYSVAENILGTGQRGPGAEL
DVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAWEEPSLGV
LKIQNVGWDNTTIIACAACNSWCSWASPVALNVQYAPRDVRVRKIKPLSEIHSGNSV
SLQCDFSSSHPKQVQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNSIGQTA
SKAWTLEVLYAPRRLRVSMSPGDQVMEGKSATLTCESDANPPVSHYTWFDWNNQ
SLPYHSQKLRLEPVKVQHSGAYWCQGTNSVGKGRSPLSTLTVYYSPETIGRR

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

CD22 CD22 molecule [Homo sapiens (human)]

Official Symbol

CD22

Synonyms

CD22; CD22 molecule; CD22 antigen; B-cell receptor CD22; sialic acid binding Ig like lectin 2; SIGLEC 2; SIGLEC2; BL-CAM; T-cell surface antigen Leu-14; B-lymphocyte cell adhesion molecule; sialic acid binding Ig-like lectin 2; sialic acid-binding Ig-like

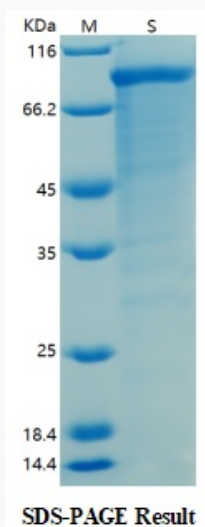
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lectin 2; SIGLEC-2; FLJ22814; MGC130020;

Gene ID 933**mRNA Refseq** NM_001185099**Protein Refseq** NP_001172028**MIM** 107266**UniProt ID** P20273**SDS-PAGE**

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