

Active Recombinant Human CD22, His-tagged, Biotinylated

Cat. No. CD22-559H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CD22 ECD is expressed as a 675 amino acid protein consisting of Asp20 - Thr683 region of CD22 (UniProt accession #P20273) and a C-terminal His-tag. It contains 12 potential sites for N-linked glycosylation.
Species	Human
Source	Human Cells
ProteinLength	20-683 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Immobilized CD22 ECD protein supports the adhesion of human red blood cells. Binds anti-CD22 monoclonal antibodies with high affinity (KD< 5="" nm)="" by="">
Molecular Mass	Calculated molecular mass (kDa): 76.0; Estimated by SDS-PAGE under reducing condition (kDa): 100-110 probably due to glycosylation.
AA Sequence	DSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR LYESTKDGKVPSEQKRVQF LGDKNKNTLSIHPVHLNDSGQLGLRMESKTEKWME RIHLNVSERPFPPHIQLPPEIQESQEVTLTCLLNFSY GYPIQLQWLLEGVPMRQAA VTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKHTP KL EIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVTK DQSGKYCCQVSNDVG PGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSL

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ANPLPTNYTWYHNGKEMQGRTEEKVHIPKILPWH AGTYSCVAENILGTGQRGPGA
ELDVQYPPKKVTTVIQNPMPIREGDTVTLSNPNSSNPSVTRYEWKPHGAWEE PSL
GVLKIQNVGWDNTTIACAACNSWCSWASPVALNVQYAPRDVRVRKIKPLSEIHSGN
SVSLQCDFSSSHPKV VQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNISG
QTASKAWTLEVLYAPRRLRVSMSPGDQVMEGKSA TLTCESDANPPVSHYTWFDW
NNQSLPYHSQKLRLEPVKVQHSGAYWCQGTNSVGKGRSPLSTLTVYYSPETSTG H
HHHHHHH

Endotoxin <0.1 eu per 1 µg of purified recombinant protein determined by the

Purity >90% judged by SDS-PAGE under reducing condition.

Storage The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation Biotin

GENE INFORMATION

Gene Name CD22 CD22 molecule [Homo sapiens]

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 lectin 2; SIGLEC-2; FLJ22814; MGC130020;

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Gene ID	933
mRNA Refseq	NM_001185099
Protein Refseq	NP_001172028
MIM	107266
UniProt ID	P20273
Chromosome Location	19q13.1
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; BCR signaling pathway, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem;
Function	protein binding; sugar binding;