

# Active Recombinant Human CD22, His-tagged, Biotinylated

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	20-683 a.a.
<b>Form</b>	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).
<b>Bio-activity</b>	Immobilized CD22 ECD protein supports the adhesion of human red blood cells. Binds anti-CD22 monoclonal antibodies with high affinity (KD < 5 nm)
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 76.0; Estimated by SDS-PAGE under reducing condition (kDa): 100-110 probably due to glycosylation.
<b>AA Sequence</b>	DSSKWWFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR LYESTKDGKVPSEQKRVQF LGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWME RIHLNVSERPFPPHIQLPPEIQESQEVTLTCLLNFSY GYPIQLQWLLEGVPMRQAA VTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKHTP KL EIKVTPSDAIVREGDSVTMTCEVSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVTK DQSGKYCCQVSNDVG PGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSL

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ANPLPTNYTWYHNGKEMQGRTEEKVHIPKILPWH AGTYSCVAENILGTGQRGPGA  
 ELDVQYPPKKVTTVIQNPMPPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAWEE PSL  
 GVLKIQNVGWDNTTIACAACNSWCSWASPVALNVQYAPRDVVRKIKPLSEIHSGN  
 SVSLQCDFSSSHPKE VQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNISG  
 QTASKAWTLEVLYAPRRLRVSMSPGDQVMGKSA 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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<b>Gene ID</b>	933
<b>mRNA Refseq</b>	NM_001185099
<b>Protein Refseq</b>	NP_001172028
<b>MIM</b>	107266
<b>UniProt ID</b>	P20273
<b>Chromosome Location</b>	19q13.1
<b>Pathway</b>	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;
<b>Function</b>	protein binding; sugar binding;

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