# Active Recombinant Human CD22, His-tagged, Biotinylated

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

## SPECIFICATION

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| **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 LGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWME RIHLNVSERPFPPHIQLPPEIQESQEVTLTCLLNFSCY GYPIQLQWLLEGVPMRQAA VTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKHTP KL EIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVTK DQSGKYCCQVSNDVG PGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSL |

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| | ANPLPTNYTWYHNGKEMQGRTEEKVHIPKILPWH AGTYSCVAENILGTGQRGPGA ELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAWEE PSL GVLKIQNVGWDNTTIACAACNSWCSWASPVALNVQYAPRDVRVRKIKPLSEIHSGN SVSLQCDFSSSHPKE VQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNSIG 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

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| **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; |

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