

Active Recombinant Human CD22 Protein, Fc-tagged, FITC conjugated

Cat. No. CD22-561HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview The FITC conjugated recombinant human CD22-Fc fusion protein is expressed as an 892 amino acid protein consisting of Asp20-Thr683 region of CD22 (UniProt accession #P20273) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.

Species Human

Source HEK293

ProteinLength 20-683 a.a.

Bio-activity Immobilized CD22 ECD protein supports the adhesion of human red blood cells. Binds anti-CD22 monoclonal antibodies with high affinity.

Molecular Mass Calculated molecular mass: 100.2 kDa
Estimated by SDS-PAGE under reducing condition: 120-130 kDa

AA Sequence

DSSKWWFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR
LYESTKDGKVPSEQKRVQF LGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWME
RIHLNVSERPFPPHIQLPPEIQESQEVTLTCLLNFSY GYPIQLQWLLEGVPMRQAA
VTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDADGKFLSNDTVQLNVKHTP KL
EIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVTK
DQSGKYCCQVSNDVG PGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSL
ANPLPTNYTWYHNGKEMQGRTEEKVHIPKILPWH AGTYSCVAENILGTGQRGPGA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ELDVQYPPKKVTTVIQNPMPPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAWEE PSL
 GVLKIQNVGWDNTTIACAACNSWCSWASPVALNVQYAPRDVVRKIKPLSEIHSGN
 SVSLQCDFSSSHPKE VQFFWEKNGRLLGKESQLNFDSISPEDAGSYSCWVNNISIG
 QTASKAWTLEVLYAPRRLRVSMSPGDQVMGKSA TLTCESDANPPVSHYTWFDW
 NNQSLPYHSQKLRLEPVKVQHSGAYWCQGTNSVGKGRSPLSTLTVYYSPETSTG T
 HTCPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV
 DGVEVHNAKTKPREEQY NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT
 ISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVK GFYPSDIAVEWESNGQPENNY
 KTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLS PG
 K

Endotoxin < 0.1 EU/ µg of purified recombinant protein determined by the LAL method

Purity > 90 % by SDS-PAGE under reducing condition

Characteristic
 Disulfide-linked homodimer
 Labeled with FITC via amines
 Excitation source: 488 nm spectral line, argon-ion laser
 Excitation Wavelength: 488 nm
 Emission Wavelength: 535 nm

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

Storage Buffer Supplied at 0.5 mg/ml in sterile PBS pH 7.4 (carrier & preservative free).

Conjugation FITC

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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;

Gene ID 933

mRNA Refseq NM_001185099

Protein Refseq NP_001172028

MIM 107266

UniProt ID P20273

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