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CD22
Recombinant Human CD22 / BL-CAM, soluble

Catalog No.	CRC802B	**Quantity:**	20 µg

Alternate Names: B-lymphocyte cell adhesion molecule, BL-CAM, T-cell surface antigen Leu-14, Sialic acid-binding Ig-like lectin 2, SIGLEC-2

Description: CD22, or cluster of differentiation-22, is a molecule belonging to the SIGLEC family of lectins. CD22 is a sugar binding transmembrane protein, which specifically binds 2,6-linked sialic acid residues with an immunoglobulin (Ig) domain located at its N-terminus. The presence of Ig domains makes CD22 a member of the immunoglobulin superfamily. It is present in the cytoplasm of nearly all B-lineage cells and is also expressed on the surface of B-cells during advance stages of differentiation. The potential therapeutic use of CD22 as a regulatory molecule that prevents the overactivation of the immune system, it may be useful in diagnostic and/or treatment of leukemia, lymphoma, non-Hodgkin's lymphoma and certain autoimmune conditions.

UniProt ID: P20273

GeneID: 933

Source: CHO cells

Molecular Weight: 75.0 kDa (666 aa)

Formulation: Lyophilized without additives

Purity: > 95% as determined by SDS-PAGE and HPLC analyses

Endotoxin Level: < 1 EU/µg

Biological Activity: ED_{50} = 10-17 µg/ml, determined by its ability to inhibit the proliferation of Raji cells.

Amino Acid Sequence:
SKWVFEHPET LYAWEGACVW IPCTYRALDG DLESFILFHN PEYNKNTSKF
DGTRLYESTK DGKVPSEQKR VQFLGDKNKN CTLSIHPVHL NDSGQLGLRM
ESKTEKWMER IHLNVSERPF PPHIQLPPEI QESQEVTLTC LLNFSCYGYP
IQLQWLLEGV PMRQAAVTST SLTIKSVFTR SELKFSPQWS HHGKIVTCQL
QDADGKFLSN DTVQLNVKHT PKLEIKVTPS DAIVREGDSV TMTCEVSSSN
PEYTTVSWLK DGTSLKKQNT FTLNLREVTK DQSGKYCCQV SNDVGPGRSE
EVFLQVQYAP EPSTVQILHS PAVEGSQVEF LCMSLANPLP TNYTWYHNGK
EMQGRTEEKV HIPKILPWHA GTYSCVAENI LGTGQRGPGA ELDVQYPPKK
VTTVIQNPMP IREGDTVTLS CNYNSSNPSV TRYEWKPHGA WEEPSLGVLK
IQNVGWDNTT IACARCNSWC SWASPVALNV QYAPRDVRVR KIKPLSEIHS
GNSVSLQCDF SSSHPKEVQF FWEKNGRLLG KESQLNFDSI SPEDAGSYSC
WVNNSIGQTA SKAWTLEVLY APRRLRVSMS PGDQVMEGKS ATLTCESDAN
PPVSHYTWFD WNNQSLPHHS QKLRLEPVKV QHSGAYWCQG TNSVGKGRSP
LSTLTVYYSP ETIGRR

Reconstitution: **Centrifuge vial prior to opening.** Add sterile water to the vial to a concentration of 0.1 - 1.0 mg/mL. **Do not vortex.** After complete solubilization of the protein, it may be further diluted with other solutions containing a carrier protein such as 0.1 % BSA.

Storage & Stability: The lyophilized protein is stable at -20°C to -80° for up to 1 year. Reconstituted working aliquots are stable for 1 week at 2-8°C and for 3 months at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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