

Product datasheet

Recombinant human CD22 protein ab50033

Description

Product name	Recombinant human CD22 protein
Biological activity	Determined by its ability to inhibit the proliferation of Raji cells. The expected ED ₅₀ for this effect is 10-17 µg/mL.
Purity	> 95 % SDS-PAGE. Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
Expression system	CHO cells
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	

SKWVFEHPET LYAWEGACVW IPCTYRALDG
 DLESFILFHN PEYNKNTSKF DGTRLYESTK
 DGKVPSEQKR VQFLGDKNKN CTLSIHPVHL
 NDSGQLGLRM ESKTEKWMER IHLNVSERPF
 PPHIQLPPEI QESQEVTLTC LLNFSCYGYG IQLQWLLEGV
 PMRQAAVTST SLTIKSVFTR SELKFSPQWS
 HHGKIVTCQL QDADGKFLSN DTVQLNVKHT
 PKLEIKVTPS DAMREGDSV TMTCEVSSSN
 PEYTTVSWLK DGTSLLKKQNT FTLNLREVTK
 DQSGKYCCQV SNDVGPGRSE EVFLQVQYAP
 EPSTVQILHS PAVEGSQVEF LCMSLANPLP
 TNYTWYHNGK EMQGRTEEKV HIPKILPWHA
 GTYSCVAENI LGTGQRGPGA ELDVQYPPKK
 VTTVIQNPMP IREGDTVTLN CNYNSSNPSV
 TRYEWKPHGA WEEPSLGVK IQNVGWDNTT
 IACARCNSWC SWASPVALNV QYAPRDVVRV
 KIKPLSEIHS GNSVSLQCDF SSSHPKEVQF
 FWEKNGRLLG KESQLNFDSI SPEDAGSYSC
 WVNNSIGQTA SKAWTLEVLY APRRLRVSMS
 PGDQVMGKS ATLTCESDAN PPVSHYTWFD
 WNNQSLPHHS QKLRLEPVKV QHSGAYWCQG
 TNSVGKGRSP LSTLTVYVSP ETIGRR

Amino acids

22 to 686

Specifications

Our [Abpromise guarantee](#) covers the use of **ab50033** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute in water to a concentration of 0.1-1.0 mg/ml

General Info

Function	Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules.
Tissue specificity	B-lymphocytes.
Sequence similarities	Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 6 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Domain	Contains 4 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.
Post-translational modifications	Phosphorylation of Tyr-762, Tyr-807 and Tyr-822 are involved in binding to SYK, GRB2 and SYK, respectively. Phosphorylation of Tyr-842 is involved in binding to SYK, PLCG2 and PIK3R1/PIK3R2. Phosphorylated on tyrosine residues by LYN.
Cellular localization	Cell membrane.

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