

### Recombinant human CD22 protein ab50033

#### Description

<b>Product name</b>	Recombinant human CD22 protein
<b>Biological activity</b>	Determined by its ability to inhibit the proliferation of Raji cells. The expected <b>ED</b> <sub>50</sub> for this effect is 10-17 µg/mL.
<b>Purity</b>	> 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).
<b>Expression system</b>	CHO cells
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	

SKWVFEHPET LYAWEGACVW IPCTYRALDG  
 DLESFILFHN PEYNKNTSKF DGTRLYESTK  
 DGKVPSEQKR VQFLGDKNKN CTLSIHPVHL  
 NDSGQLGLRM ESKTEKWMER IHLNVSERPF  
 PPHIQLPPEI QESQEVTLTC LLNFSCYGYP IQLQWLLEGV  
 PMRQAAVTST SLTIKSVFTR SELKFSPQWS  
 HHGKIVTCQL QDADGKFLSN DTVQLNVKHT  
 PKLEIKVTPS DAMREGDSV TMTCEVSSSN  
 PEYTTVSWLK DGTSLLKQNT FTLNLREVTK  
 DQSGKYCCQV SNDVGPGRSE EVFLQVQYAP  
 EPSTVQILHS PAVEGSQVEF LCMSLANPLP  
 TNYTWYHNGK EMQGRTEEKV HIPKILPWA  
 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 LSTLTVYYSP ETIGRR

**Amino acids**

22 to 686

## Specifications

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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.

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Lyophilized

## Preparation and Storage

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<b>Stability and Storage</b>	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.
<b>Reconstitution</b>	Reconstitute in water to a concentration of 0.1-1.0 mg/ml

## General Info

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<b>Function</b>	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.
<b>Tissue specificity</b>	B-lymphocytes.
<b>Sequence similarities</b>	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.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Cell membrane.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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