

Product datasheet

Recombinant Human CD22 protein (His tag) ab217822

1 Image

Description

Product name	Recombinant Human CD22 protein (His tag)	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	HEK 293 cells	
Accession	P20273	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>WLEGVPMRQAAVTSTSLTIKSVFTRSELKFSPQWSH HGKIMTCQLQDAD GKFLSNDTVQLNVKHTPKLEIKVTPSDAIVREGDSVTM TCEVSSSNPEYT TVSWLKDGTSLKKQNTFTLNLREVTKDQSGKYCCQVS NDVGPGRSEEVFL QVQYAPEPSTVQILHSPAVEGSQVEFLCMSLANPLPT NYTWYHNGKEMQG RTEEKVHIPKILPWHAGTYSCVAENILGTGQRGPGAEL DVQYPPKKVTTV IQNPMPIREGDTVTLSCNYNSSNPSVTRYEWKPHGAW EEPSLGVLEKIQNV GWDNTTIACAACNSWCSWASPVALNVQYAPRDVRVR KIKPLSEIHSGNSV SLQCDFSSSHPKVQFFWEKNGRLLGKESQLNFDSIS PEDAGSYSCWVNN SIGQTASKAWTLEVLYAPRRLRVSMSPGDQVMGKS ATLTCESDANPPVS HYTWFDWNNQSLPYHSQKLRLEPVKVQHSGAYWCQ GTNSVGKGRSPLSTL TVYYSPEITGRR</p>	
Predicted molecular weight	58 kDa including tags	
Amino acids	176 to 687	
Tags	His tag C-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab217822** 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
Form	Lyophilised

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at 4°C prior to reconstitution. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 95% PBS, 5% Trehalose

Note: 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%.

Reconstitution It is recommended to reconstitute the lyophilized product in sterile deionized water to a final concentration of 1 mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

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.

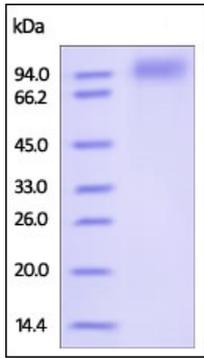
Domain Contains 4 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

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.

Images



SDS-PAGE - Recombinant Human CD22 protein
(His tag) (ab217822)

SDS-PAGE using ab217822. DTT-reduced protein migrates as 90-100 kDa in SDS-PAGE due to glycosylation.

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