

## Product datasheet for PH316939

### CD22 (NM\_001771) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CD22 MS Standard C13 and N15-labeled recombinant protein (NP_001762)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216939
Predicted MW:	95.8 kDa
Protein Sequence:	>RC216939 representing NM_001771 Red=Cloning site Green=Tags(s)

MHLLGPWLLLLVLEYLAFSDSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSK  
FDGTRL YESTKDGKVPSEQKRVQFLGDKNKNCTLSIHPVHLNDSGQLGLRMEKTEKWMERIHNLNVSERP  
FPPHIQLPPEIQESQEVTLTCLLNFSCYGYPIQLQWLLGVPMRQAAVTSTSLTIKSVFTRSELKFSQW  
SHHGKIVTCQLQDADGKFLSNDTVQLNVKHTPKLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWL  
KDGTSLLKQNTFTLNLREVTKDQSGKYCCQVSNVGPGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVE  
FLCMLANPLPTNYTWYHNGKEMQGRTEEKVHHPKILPWHAGTYSCVAENILGTGQRGPGAELDVQYPPK  
KVTTVIQNPMPIREGDTVTLSCNYNSSNPVTRYEWKPHGAWEEP SLGVLKI QNVGWDNTT IACAACNSW  
CSWASPVALNVQYAPRDVVRKIKPLSEIHSGNSVSLQCDFSSSHPKVQFFWEKNGRLLGKESQLNFDS  
ISPEDAGSYSCWYNNSIGQTASKAWTLEVL YAPRRLRVSMSPGDQVMEGKSATLTCESDANPPVSHYTW  
DWNQSLPYHSQKLRLEPVKVQVHSGAYWCQGTNSVGKGRSPLSTLTVYYSPETIGRRVAVGLGSCLA I I  
LAICGLKLQRRWKRTQSQQGLQENSSGQSFVVRNKKVRRAPLSEGPLSLGCYNPMMEDGISYTTLRFP  
NIPRTGDAESSEMQRPPDCDDT VTYSALHKRQVGDYENVIPDFPEDEGIHYSEL IQFGVGERPQAQENV  
DYVILKH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP\\_001762](#)

RefSeq Size: 3300

RefSeq ORF: 2541

Synonyms: SIGLEC-2; SIGLEC2

Locus ID: 933

UniProt ID: [P20273](#), [Q0EAF5](#)

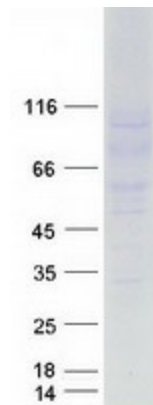
Cytogenetics: 19q13.12

**Summary:** 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. [UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** B cell receptor signaling pathway, Cell adhesion molecules (CAMs), Hematopoietic cell lineage

### Product images:



Coomassie blue staining of purified CD22 protein (Cat# [TP316939]). The protein was produced from HEK293T cells transfected with CD22 cDNA clone (Cat# [RC216939]) using MegaTran 2.0 (Cat# [TT210002]).