Recombinant human Siglec-2/CD22 protein

Catalog Number: ATGP3707

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
20-687aa

UniProt No.
P20273

NCBI Accession No.
NP_001762

Alternative Names
B-cell receptor CD22 isoform 1, CD22, SIGLEC-2, SIGLEC2

PRODUCT SPECIFICATION

Molecular Weight
102.1 kDa (907aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
hIgG-His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
CD22, also known as B-cell receptor CD22 isoform 1, is a member of the immunoglobulin (Ig) superfamily. It mediates B-cell to B-cell interactions and is involved in the localization of B-cells in lymphoid tissues. This protein plays a positive regulation through interaction with Src family tyrosine kinases and also acts as an inhibitory receptor by recruiting cytoplasmic phosphatases. Recombinant human CD22 protein, fused to hIgG-His-tag at C-

terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

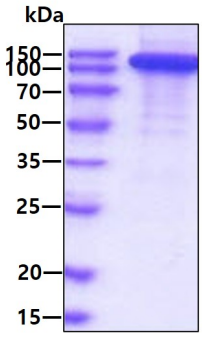
DSSKWVFEHP ETLYAWEGAC VWIPCTYRAL DGDLESFILF HNPEYNKNTS KFDGTRLYES TKDGKVPSEQ KRVQFLGDKN KNCTLSIHPV HLNDSGQLGL RMESKTEKWM ERIHLNVSER PFPPHIQLPP EIQESQEVTL TCLLNFSCYG YPIQLQWLLE GVPMRQAAVT STSLTIKSVF TRSELKFSPQ WSHHGKIVTC QLQDADGKFL SNDTVQLNVK HTPKLEIKVT PSDAIVREGD SVTMTCEVSS SNPEYTTVSW LKDGTSLKKQ NTFTLNLREV TKDQSGKYCC QVSNDVGPGR SEEVFLQVQY APEPSTVQIL HSPAVEGSQV EFLCMSLANP LPTNYTWYHN GKEMQGRTEE KVHIPKILPW HAGTYSCVAE NILGTGQRGP GAELDVQYPP KKVTTVIQNP MPIREGDTVT LSCNYNSSNP SVTRYEWKPH GAWEEPSLGV LKIQNVGWDN TTIACAACNS WCSWASPVAL NVQYAPRDVR VRKIKPLSEI HSGNSVSLQC DFSSSHPKEV QFFWEKNGRL LGKESQLNFD SISPEDAGSY SCWVNNSIGQ TASKAWTLEV LYAPRRLRVS MSPGDQVMEG KSATLTCESD ANPPVSHYTW FDWNNQSLPY HSQKLRLEPV KVQHSGAYWC QGTNSVGKGR SPLSTLTVYY SPETIGRR<LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG KHHHHHH>

General References

Yu SF., et al, (2015) Clin Cancer Res. 21:3298-3306.
Lumb S., et al, (2016) J Cell Commun Signal. 10:143-151.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain