Recombinant human CD21 protein

Catalog Number: ATGP3887

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
21-971aa

UniProt No.
P20023

NCBI Accession No.
NP_001868.2

Alternative Names
CD21, CR2, Cr2, C3DR, CR, CVID7, SLEB9, Complement receptor type 2, Complement C3d receptor, Epstein-Barr virus receptor, EBV receptor

PRODUCT SPECIFICATION

Molecular Weight
105.2 kDa (959aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

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

Purity
> 95% by SDS-PAGE

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

Tag
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
CD21, also known as complement receptor type 2 isoform 2, is an N-glycosylated member of the regulators of complement activation family of proteins. This protein is present on all mature B-cells and some T-cells and follicular dendritic cells and is released by proteolytic shedding from activated B cell. It forms a complex with the

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B cell receptor-associated CD19 molecule and lowers the threshold for B cell activation. It binds the complement component fragments iC3b, C3D, and C3d. Also, this protein has a function in the complement system through serving as the cellular receptor specific for ligands such as C3 and C4. Recombinant Human CD21, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

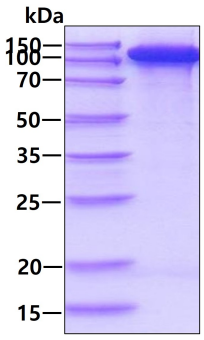
ISCGSPPPIL NGRISYYSTP IAVGTVIRYS CSGTFRLIGE KSLLCITKDK VDGTWDKPAP KCEYFNKYSS CPEPIVPGGY KIRGSTPYRH GDSVTFACKT NFSMNGNKSV WCQANNMWGP TRLPTCVSVF PLECPALPMI HNGHHTSENV GSIAPGLSVT YSCESGYLLV GEKIINCLSS GKWSAVPPTC EEARCKSLGR FPNGKVKEPP ILRVGVTANF FCDEGYRLQG PPSSRCVIAG QGVAWTKMPV CEEIFCPSPP PILNGRHIGN SLANVSYGSI VTYTCDPDPE EGVNFILIGE STLRCTVDSQ KTGTWSGPAP RCELSTSAVQ CPHPQILRGR MVSGQKDRYT YNDTVIFACM FGFTLKGSKQ IRCNAQGTWE PSAPVCEKEC QAPPNILNGQ KEDRHMVRFD PGTSIKYSCN PGYVLVGEES IQCTSEGVWT PPVPQCKVAA CEATGRQLLT KPQHQFVRPD VNSSCGEGYK LSGSVYQECQ GTIPWFMEIR LCKEITCPPP PVIYNGAHTG SSLEDFPYGT TVTYTCNPGP ERGVEFSLIG ESTIRCTSND QERGTWSGPA PLCKLSLLAV QCSHVHIANG YKISGKEAPY FYNDTVTFKC YSGFTLKGSS QIRCKADNTW DPEIPVCEKE TCQHVRQSLQ ELPAGSRVEL VNTSCQDGYQ LTGHAYQMCQ DAENGIWFKK IPLCKVIHCH PPPVIVNGKH TGMMAENFLY GNEVSYECDQ GFYLLGEKKL QCRSDSKGHG SWSGPSPQCL RSPPVTRCPN PEVKHGYKLN KTHSAYSHND IVYVDCNPGF IMNGSRVIRC HTDNTWVPGV PTCIKKAFIG CPPPPKTPNG NHTGGNIARF SPGMSILYSC DQGYLLVGEA LLLCTHEGTW SQPAPHCKEV NCSSPADMDG IQKGLEPRKM YQYGAVVTLE CEDGYMLEGS PQSQCQSDHQ WNPPLAVCRS R<VEHHHHHH>

General References

Tanner J., et al, (1987) Cell 50:203-213.
Carel JC., et al, (1990) J. Biol. Chem. 265:12293.

DATA

SDS-PAGE



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