

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

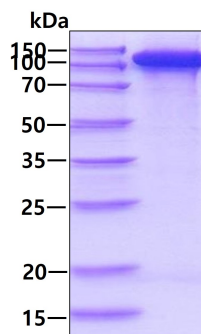
ISCGSPPIIL NGRISYYSTP IAVGTVIRYS CSGTFRLLIGE KLLLCITKDK VDGTWDPAP KCEYFNKYSS CPEIVPGGY
 KIRGSTPYRH GDSVTFACKT NFSMNGNKS VWCQANNMWGP TRLPTCVSVF PLECPALPMI HNGHHTSENV GSIAPGLSVT
 YSCESGYLLV GEKIINCLSS GKWSAVPPTC EEARCKSLGR FPNGKVKEPP ILRVGV TANF FCDEGYRLQG PPSSRCVIAG
 QGVAWTKMPV CEEIFCPSP PILNGRHIGN SLANVSYGSI VTYTCDPDPE EGVNFILIGE STLRCTVDSQ KGTWWSGPAP
 RCELSTSAVQ CPHPQILRGR MVSGQKDRYT YNDTVIFACM FGFTLKGSKQ IRCNAQGTWE PSAPVCEKEC QAPPNINLNGQ
 KEDRHMVRFD PGTSIKYSCN PGYVLVGEES IQCTSEGVWT PPVPQCKVAA CEATGRQLLT KPQHQFVRPD VNSSCGEGYK
 LSGSVYQECQ GTIPWFMEIR LCKEITCPPP PVIYNGAHTG SSLEDFPYGT TVTYTCNPGP ERGVEFSLIG ESTIRCTSND
 QERGTWSGPA PLCKLSELLAV QCSHVHIANG YKISGKEAPY FYNDTVTFKC YSGFTLKGSS QIRCKADNTW DPEIPVCEKE
 TCQHVRQSLQ ELPAGSRVEL VNTSCQDGYQ LTGHAYQMCQ DAENGIWFKK IPLCKVIHCH PPPVIVNGKH TGMMAENFLY
 GNEVSYECDQ GFYLLGEKKL QCRSDSKGHG SWSGSPSQCL RSPPVTRCPN PEVKHGYKLN KTHSAYSHND IVYVDCNPGF
 IMNGSRVIRC HTDNTWVPGV PTCIKKAFIG CPPPKTPNG 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.