

Recombinant mouse C1q R1/CD93 protein

Catalog Number: ATGP3231

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-572aa

UniProt No.

O89103

NCBI Accession No.

NP_034870.1

Alternative Names

Cd93, C1q/MBL/SPA receptor, C1qRp, Cell surface antigen AA4, Lymphocyte antigen 68, Ly-68

PRODUCT SPECIFICATION

Molecular Weight

60.1 kDa (558aa)

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

CD93, also known as Complement component C1q receptor, is receptor (or element of a larger receptor complex) for C1q, mannose-binding lectin (MBL2) and pulmonary surfactant protein A (SPA). This protein mediates the enhancement of phagocytosis in monocytes and macrophages upon interaction with soluble defense collagens. It may play a role in intercellular adhesion. This protein was expressed on (pre)

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plasmablasts/plasma cells, including long-lived plasma cells that showed decreased cell cycle activity, high levels of isotype-switched Ig secretion, and modification of the transcriptional network. It is important for the maintenance of plasma cells in bone marrow niches. Recombinant mouse CD93, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

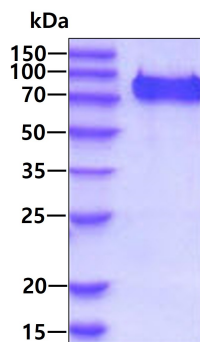
ADSQAVVCEG TACYTAHWGK LSAAEAQHRC NENGGNLTAV KSEEEARHVQ QALTQLLKTK APLEAKMGKF WIGLQREKGN
CTYHDLPMRG FSWVGGGEDT AYSNWKASK SSCIFKRCVS LILDLSLTPH PSHLPKWHES PCGTPEAPGN SIEGFLCKFN
FKGMCRPLAL GGPGRVTYTT PFQATTSSLE AVPFASVANV ACGDEAKSET HYFLCNEKTP GIFHWGSSGP LCVSPKFGCS
FNNGGCQQDC FEGGDGSFRC GCRPGFRLLD DLVTCASRNP CSSNPCTGGG MCHSVPLESEN YTCRCPSGYQ
LDSSQVHCVD IDECQDSPA QDCVNTLGSF HCECWVGYQP SGPKEEACED VDECAAANSP CAQGCINTDG SFYCSCKEGY
IVSGEDSTQC EDIDECSDAR GNPCDSLFCN TDGSFRCGCP PGWELAPNGV FCSRGTVFSE LPARPPQKED NDDRKESTMP
PTEMPSSPSG SKDVSNAQT TGLFVQSDIP TASVPLEIEI PSEVSDVWFE LGTYLPTTSG HSKPTHEDSV SAHSDTDGQN
<LEHHHHHH>

General References

Galvan MD., et al. (2012) J. Immunol. 188(8):3716-3723.
Greenlee-Wacker MC., et al. (2012) Curr Drug Targets 13(3):411-420.

DATA

SDS-PAGE



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