

Recombinant human CD72 protein

Catalog Number: ATGP3869

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

117-359aa

UniProt No.

P21854

NCBI Accession No.

NP_001773

Alternative Names

CD72, CD72b, LYB2, B-cell differentiation antigen CD72, Lyb-2, CD_antigen: CD72

PRODUCT SPECIFICATION

Molecular Weight

55.3 kDa (485aa)

Concentration

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

Formulation

Liquid in. 50mM Tris-HCl buffer (pH 6.8) containing 2mM DTT, 0.2M NaCl, 50% glycerol

Purity

> 90% 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

CD72, also known as B-cell differentiation antigen CD72, is a type II transmembrane glycoprotein carrying a C-type lectin domain. It plays a role in immune system regulation of animals and expressed on B lineage cells, NK cells, monocytes, dendritic cells, and mast cells as a homodimer. Also, this protein associates with CD79A in the B cell antigen receptor (BCR) complex following antigen stimulation and dampens BCR signaling through

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interactions with the phosphatase SHP1. It binding to Semaphorin 4D induces cytokine production by monocytes and dendritic cells, inhibits SCF R/ckit induced mast cell proliferation and activation, and inhibits the cytolytic activity of NK cells. Moreover, BCR signaling enhances phosphorylation of CD72 and its recruitment of SHP-1. Recombinant human CD72, fused to hIlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>RYLQVSQ QLQQTNRVLE VTNSSLRQQL RLKITQLGQS AEDLQGSRRR LAQSQEALQV EQRAHQAAEG
 QLQACQADRQ KTKETLQSEE QRRRALEQKL SNMENRLKPF FTCGSADTCC PSGWIMHQKS CFYISLTSKN WQESQKQCET
 LSSKLATFSE IYPQSHSYFF LNSLLPNGGS GNSYWTGLSS NKDWKLTDDT QRTRTYAQSS KCNKVHKTWS WWTLESESCR
 SSLPYICEMT AFRFPD<LEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH> <EDPEVKFNWY
 VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL> <PAPIEKTISK AKGQPREPQV YTLPPSRDEL
 TKNQVSLTCL VKGFYPSDIA VEWESNGQPE> <NNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM
 HEALTHNHYTQ KSLSLSPGKH> <HHHHH>

General References

Vadasz Z., et al, (2014) Semin. Arthritis Rheum. 43:767-771.
 Adachi T., et al, (1998) J. Immunol. 160:4662-4665.

DATA

SDS-PAGE

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

