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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

hlgG-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 hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

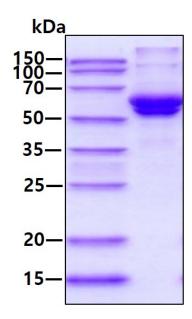
<ADP>RYLQVSQ QLQQTNRVLE VTNSSLRQQL RLKITQLGQS AEDLQGSRRE LAQSQEALQV EQRAHQAAEG QLQACQADRQ KTKETLQSEE QQRRALEQKL SNMENRLKPF FTCGSADTCC PSGWIMHQKS CFYISLTSKN WQESQKQCET LSSKLATFSE IYPQSHSYYF LNSLLPNGGS GNSYWTGLSS NKDWKLTDDT QRTRTYAQSS KCNKVHKTWS WWTLESESCR SSLPYICEMT AFRFPD
LEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH> <EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL> <PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE> <NNYKTTPPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ 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.

