

Recombinant human JAM-B/VE-JAM protein

Catalog Number: ATGP3758

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

29-238aa

UniProt No.

P57087

NCBI Accession No.

NP_067042

Alternative Names

Junctional adhesion molecule B isoform 1, JAM2, C21orf43, CD322, JAM-B, JAMB, PRO245, VE-JAM, VEJAM

PRODUCT SPECIFICATION

Molecular Weight

50.7 kDa (452aa)

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol, 1mM DTT

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

JAM2, also known as junctional adhesion molecule B isoform 1, is a type 1 transmembrane receptor belonging to the immunoglobulin superfamily. This protein is expressed prominently on high endothelial venules of lymphoid organs where it is localized to the intercellular boundaries of high endothelial cells. It can function as an adhesive ligand for the T cell line J45 and can interact with GM-CSF/IL-4-delivered peripheral blood dendritic cells.

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Also, it plays a role in the regulation of transendothelial migration. It binds to very late activation antigen (VLA) - 4, a leucocyte integrin that contributes to rolling and firm adhesion of lymphocytes to endothelial cells through binding to vascular cell adhesion molecule (VCAM) -1. Recombinant human JAM2, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

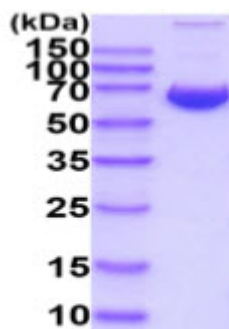
ADPFSAPKDQ QVVTAVEYQE AILACKTPKK TVSSRLEWKK LGRSVSFVYY QQTLOGDFKN RAEMIDFNIR IKNVTRSDAG
KYRCEVSAPS EQGQNLEEDT VTLEVLVAPA VPSCEVPSSA LSGTVVELRC QDKEGNPAPE YTWFKDGIRL LENPRLGSQS
TNSSYTMNTK TGTLQFNTVS KLDTGEYSCE ARNSVGYRRC PGKRMQVDDL NISLEPKSCD KTHTCPPCPA PELLGGPSVF
LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC
KVS NKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQPENNY KTTPPVLDS
GSFFLYSKLT VDKSRWQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH

General References

Palmeri D., et al, (2000) J. Biol. Chem. 275:19139-19145.
Cunningham SA., et al, (2000) J. Biol. Chem. 275:34750-34756.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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