JAM-2/JAM-B (JAM2) Recombinant Protein

PRODUCT OVERVIEW

Product Name	JAM-2/JAM-B (JAM2), Recombinant Protein
Full Product Name	JAM-2/JAM-B Protein, Mouse, Recombinant (His Tag)
Product Gene Name	JAM2 recombinant protein
Product Synonym Names	Mouse JAM2/CD322/VE-JAM Protein (His Tag); 1110002N23Rik Protein, Mouse; 2410030G21Rik Protein, Mouse; 2410167M24Rik Protein, Mouse; JAM-2 Protein, Mouse; JAM-B Protein, Mouse; Jcam2 Protein, Mouse; VE-JAM Protein, Mouse; junctional adhesion molecule 2
Sequence	Met1-Asn23 6
Host	HEK293 Cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Purity/Purification	>97% as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.
Molecular Weight	33,047 Da
Chromosome Location	Chromosome: 16; NC_000082.5 (84774368..84823129). Location: 16 C3.3; 16
3D Structure	ModBase 3D Structure for Q9JI59
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Phe 29
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain of mouse JAM2 (NP_076333.3)(Met 1-Asn 236) was expressed, with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Related Product Information for JAM2 recombinant protein	Background: Junctional adhesion molecule B (JAM-B), also known as Junctional adhesion molecule 2 (JAM2), Vascular endothelial junction-associated molecule (VE-JAM), and CD322, is a single-pass type I membrane protein that belongs to the immunoglobulin superfamily. It is prominently expressed on high endothelial venules. expression to be restricted to the high endothelial venule of tonsil and lymph nodes. The localization to the endothelium of arterioles in and around inflammatory and tumor foci. JAM-B can function as an adhesive ligand for the T cell line J45 and can interact with GM-CSF/IL-4-derived peripheral blood dendritic cells, circulating CD56(+) NK cells, circulating CD56(+)CD3(+) NK/T cells, and circulating CD56(+)CD3(+)CD8(+) cytolytic T cells. JAM-2 is expressed on high endothelial venules (HEVs) in human tonsil and on a subset of human leukocytes, suggesting that JAM-2 plays a central 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. JAM-B appears to contribute to leukocyte extravasation by facilitating not only transmigration but also rolling and adhesion. JAM-B acts as an adhesive ligand for interacting with a variety of immune cell types and may play a role in lymphocyte homing to secondary lymphoid organs.

Product References and Citations for JAM2 recombinant protein	Johnson-Lger CA, et al. (2002) Junctional adhesion molecule-2 (JAM-2) promotes lymphocyte transendothelial migration. Blood. 2100(7): 2479-86.Liang TW, et al. (2002) Vascular endothelial-junctional adhesion molecule (VE-JAM)/JAM 2 interacts with T, NK, and dendritic cells through JAM 3. J Immunol. 168(4): 1618-26.Ludwig RJ, et al. (2009) Junctional adhesion molecule (JAM)-B supports lymphocyte rolling and adhesion through interaction with alpha4beta1 integrin. Immunology. 128(2): 196-205.
Other Notes	Small volumes of JAM2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for JAM2 purchase	MBS8122760 is a recombinant protein targeting JAM2. Also known as JAM-2/JAM-B Protein, Mouse, Recombinant (His Tag). Host: HEK293 Cells.



SDS-Page of JAM2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JAM2. It may not necessarily be applicable to this product.

NCBI GI #	148747504
NCBI GeneID	67374
NCBI Accession #	NP_076333.3
UniProt Primary Accession #	Q9JI59
UniProt Secondary Accession #	Q8C5K9; Q8CE95; A6X955
UniProt Related Accession #	Q9CWD9; Q9JI59
GenBank Nucleotide #	NM_023844.5
NCBI Official Full Name	junctional adhesion molecule B
NCBI Official Synonym Full Names	junction adhesion molecule 2
NCBI Official Symbol	Jam2
NCBI Official Synonym Symbols	JAM-2; JAM-B; Jcam2; VE-JAM; 1110002N23Rik; 2410030G21Rik; 2410167M24Rik
UniProt Protein Name	Junctional adhesion molecule B
UniProt Synonym Protein Names	Junctional adhesion molecule 2; JAM-2; Vascular endothelial junction-associated molecule
Protein Family	Junctional adhesion molecule
UniProt Gene Name	Jam2
UniProt Synonym Gene Names	Vejam
UniProt Entry Name	JAM2_MOUSE
NCBI Protein Information	junctional adhesion molecule B; OTTMUSP00000030469; junction adhesion molecule B; junctional adhesion molecule 2; junction cell adhesion molecule 2; vascular endothelial junction-associated molecule

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