

Recombinant Human JAM1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50584

Size: 10ug, 100ug

Protein Name: Junctional adhesion molecule A (JAM-A) (Junctional adhesion molecule 1) (JAM-1) (Platelet F11 receptor) (Platelet adhesion molecule 1) (PAM-1) (CD antigen CD321)

Synonym: F11R, JAM1, JCAM, UNQ264/PRO301

UniProt ID: Q9Y624

UniProt Link: www.uniprot.org/uniprotkb/Q9Y624/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 299 AA

Molecular Weight: 33 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGTKAQVERKLLCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLSCAYSGFSSPRVEWKFDQGD
TTRLVCYNNKITASYEDRVTLPTGITFKSVTREDTGTYTCMVSEEGNSYGEVKVKLIVLVPPSKPT
VNIPSSATIGNRAVLTCSEQDGSPPEYTWFKDGIVMPTNPKSTRAFSNSSYVLNPTTGELVFDPLSA
SDTGEYSCEARNGYGTPMTSNAVRMEAVERNVGVIVA AVLVTLLILGILVFGIWFAYSRGHFDRTKK
GTSSKKVIYSQPSARSEGEFKQTSSFLV

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Junctional adhesion molecule A (JAM-A) (Junctional adhesion molecule 1) (JAM-1) (Platelet F11 receptor) (Platelet adhesion molecule 1) (PAM-1) (CD antigen CD321) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Seems to play a role in epithelial tight junction formation. Appears early in primordial forms of cell junctions and recruits PARD3 (PubMed:11489913). The association of the PARD6-PARD3 complex may prevent the interaction of PARD3 with JAM1, thereby preventing tight junction assembly (By similarity). Plays a role in regulating monocyte transmigration involved in integrity of epithelial barrier (By similarity). Ligand for integrin alpha-L/beta-2 involved in memory T-cell and neutrophil transmigration (PubMed:11812992). Involved in platelet activation (PubMed:10753840).; (Microbial infection) Acts as a receptor for Mammalian reovirus sigma-1.; (Microbial infection) Acts as a receptor for Human Rotavirus strain Wa.

Subcellular Localization: Cell junction, tight junction . Cell membrane ; Single-pass type I membrane protein . Note=Localized at tight junctions of both epithelial and endothelial cells.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.