

Recombinant Rat JAM1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52579

Size: 10ug, 100ug

Protein Name: Junctional adhesion molecule A (JAM-A) (Junctional adhesion molecule 1) (JAM-1) (CD antigen CD321)

Synonym: F11r, Jam1

UniProt ID: Q9JHY1

UniProt Link: www.uniprot.org/uniprotkb/Q9JHY1/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 300 AA

Molecular Weight: 32 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGTEGKAGSKLLFLFTSMILGSLVQGGKGSVSPQTAVQVPENDSVKLPCIYSGFSSPRVEWKFVQG
STTALVCYNNQITVPYADRVTFSSSGITFSSVTRKDNGEYTCMVSEDGGQNYGEVSIHLTVLVPPSK
PTVSIPSSVTIGNRAVLTCSEHDGSPPEYSWFKDGVPMILTADAKKTRAFINSSYTIDPKSGDLVFDP
VSAFDSGEYYCEAQNGYGTAMRSEAVRMEAVELNVGGIVA AVLVTLLGLLIFGIWFAYS RGYFERT
KKG TAPGKKVIYSQPSARSEGEFKQTSSFLV

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) (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 PAR3. The association of the PAR3-PAR6 complex may prevent the interaction of PAR3 with JAM1, thereby preventing tight junction assembly. Plays a role in regulating monocyte transmigration involved in integrity of epithelial barrier. Ligand for integrin α -L/ β -2 involved in memory T-cell and neutrophil transmigration.

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.