

JAM-A/CD321 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P73855
Synonyms:	Junctional Adhesion Molecule A; JAM-A; JAM-1; PAM-1; CD321; F11R; JCAM
Species:	Mouse
Source:	HEK293
Accession:	O88792 (M1-A242)
Gene ID:	16456
Molecular Weight:	Approximately 57 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	JAM-A/CD321 protein plays a crucial role in the formation of epithelial tight junctions and is present early in primordial cell junctions, where it recruits PARD3. The association of the PARD6-PARD3 complex may hinder the interaction between PARD3 and JAM1, thereby preventing the assembly of tight junctions. Furthermore, JAM-A is involved in regulating monocyte transmigration, contributing to the integrity of the epithelial barrier. Acting as a ligand for integrin alpha-L/beta-2, it participates in the transmigration of memory T-cells and neutrophils. Additionally, JAM-A is implicated in platelet activation and interacts with the ninth PDZ domain of MPDZ. Its interaction with the first PDZ domain of PARD3 may be disrupted by the association between PARD3 and PARD6B. Furthermore, JAM-A interacts with ITGAL (via I-domain), further highlighting its multifaceted involvement in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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