

## JAM-A/CD321 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P70948
<b>Synonyms:</b>	Junctional Adhesion Molecule A; JAM-A; Junctional Adhesion Molecule 1; JAM-1; Platelet F11 Receptor; Platelet Adhesion Molecule 1; PAM-1; CD321; F11R; JAM1; JCAM
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9Y624 (S28-V238)
<b>Gene ID:</b>	50848
<b>Molecular Weight:</b>	27-31kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> SVTVHSSEPE   VRIPENNPVK   LSCAYSGFSS   PRVEWKFDQG DTRLVCYNN    KITASYEDRV   TFLPTGITFK   SVTREDTGTY TCMVSEEGGN   SYGEVKVKLI   VLVPPSKPTV   NIPSSATIGN RAVLTCSEQD   GSPPSEYTFW   KDGIVMPTNP   KSTRAFSNSS YVLNPTTDEL   VFDPLSASDT   GEYSCEARNG   YGTPMTSNAV RMEAVERNVG   V           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 100 mM Glycine, pH 7.5.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The JAM-A/CD321 protein appears to be involved in the formation of tight junctions in epithelial cells. It is present in the early stages of cell junction development and recruits PARD3. The association of the PARD6-PARD3 complex may prevent the interaction between PARD3 and JAM1, thus hindering tight junction assembly. The protein also plays a role in regulating monocyte transmigration, which is crucial for maintaining the integrity of the epithelial barrier. It acts as a ligand for integrin alpha-L/beta-2, facilitating the transmigration of memory T-cells and neutrophils. Additionally, it is involved in platelet activation. In terms of microbial infection, JAM-A/CD321 acts as a receptor for Mammalian reovirus sigma-1.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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