



# Recombinant Protein Technical Manual

**Recombinant Human JAM-A/F11R Protein (His Tag)(Active)**  
RPES0503

## Product Data:

**Product SKU:** RPES0503

**Size:** 50µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_058642.1

## Protein Information:

**Molecular Mass:** 25 kDa

**AP Molecular Mass:** 28-32 kDa

**Tag:** C-His

**Bio-activity:** Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8 x 10<sup>4</sup> cells/well are added to JAM-A-Fc coated plates (2.5µg/mL, 100 µL/well) in the presence of 20 ng/mL PMA, approximately 30-40% will adhere after 30 minutes at 37°C.

**Purity:** > 97 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Junctional Adhesion Molecule A; JAM-A; Junctional Adhesion Molecule 1; JAM; Platelet F11 Receptor; Platelet Adhesion Molecule 1; PAM; CD321; F11R; JAM1; JCAM; JAMA; JCAM; KAT

## Immunogen Information:

**Sequence:** Met 1-Ala 242

## Background:

Junctional adhesion molecule-A (JAM-A), also known as F11 receptor (F11R) or Cluster of Differentiation 321 (CD321), is a transmembrane protein expressed at tight junctions of epithelial and endothelial cells, as well as on circulating leukocytes. JAM-A protein serves as a serotype-independent receptor for mammalian orthoreoviruses (reoviruses). It is also a ligand for the integrin LFA1, involves in leukocyte transmigration. As a cell adhesion molecule of the immunoglobulin superfamily, JAM-A protein involves in platelet adhesion, secretion and aggregation, and plays a crucial role in inflammatory thrombosis and atherosclerosis. In addition, it may be a potential therapeutic target for breast cancer.