

JAM-A Protein, Human, Recombinant (His)

General Information

Synonyms:	PAM-1;F11 receptor;JAMA;JAM1;KAT;CD321;JCAM;JAM
Protein Construction:	Ser28-Val238.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y624-1
Molecular Weight:	24 kDa (Predicted); 28-35 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human JAM-A, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-JAM-A Antibody, hFc Tag with the EC50 of 12.3 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	Less than 1EU per µg by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

junctional adhesion molecule A (JAM-A), a cell adhesion molecule, is highly elevated in human GBM cancer stem cells and predicts poor patient prognosis. While JAM-A is also highly expressed in other cells in the tumor microenvironment, specifically microglia and macrophages, JAM-A functions to suppress pathogenic microglial activation in the female tumor microenvironment, highlighting an emerging role for sex differences in the GBM microenvironment and suggesting that sex differences extend beyond previously reported tumor cell-intrinsic differences.

Reference

- Guglielmi KM, et al. (2007) Reovirus binding determinants in junctional adhesion molecule-A. J Biol Chem. 282(24): 17930-40.
- Yeung D, et al. (2008) Decreased junctional adhesion molecule-A expression during blood-brain barrier breakdown. Acta Neuropathol. 115(6): 635-42.
- Ong KL, et al. (2009) Elevated plasma level of soluble F11 receptor/junctional adhesion molecule-A (F11R/JAM-A) in hypertension. Am J Hypertens. 22(5): 500-5.

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