# Recombinant Mouse JAM3/JAM-C Protein (His Tag)

**Catalog No.** PKSM040667

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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|---|---|
| **Synonyms** | 1110002N23Rik;JAM-3;JAM-C;Jcam3 |
| **Species** | Mouse |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Met 1-Asn 241 |
| **Accession** | NP_075766.1 |
| **Calculated Molecular Weight** | 25 kDa |
| **Observed molecular weight** | 30-35 kDa |
| **Tag** | C-His |
| **Bioactivity** | Not validated for activity |

## Properties

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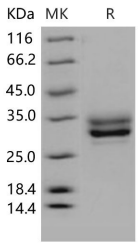
|---|---|
| **Purity** | > 94 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile 50mM Tris-Citrate, 300mM NaCl, pH 6.5<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 94 % as determined by reducing SDS-PAGE.

## Background

Junctional Adhesion Molecule C Protein & Antibody (JAM-C, JAM3 Protein) also known as Junctional adhesion molecule 3, JAM3, is a single-pass type I membrane protein that belongs to the immunoglobulin superfamily. It is an

adhesion molecule expressed by endothelial cells (ECs) that plays a role in tight junction formation, leukocyte adhesion, and transendothelial migration. JAM-C is an adhesion molecule that is expressed on cells within the vascular compartment and epithelial cells and, to date, has been largely studied in the context of inflammatory events. JAM-C is also expressed in peripheral nerves and that this expression is localized to Schwann cells at junctions between adjoining myelin end loops. JAM-C was recently shown to be a counter receptor for the leukocyte beta2-integrin Mac-1 (CD11b/CD18), thereby mediating interactions between vascular cells, particularly in inflammatory cell recruitment. JAM-C is up-regulated by oxidized low-density lipoprotein (LDL) and may thereby contribute to increased inflammatory cell recruitment during atherosclerosis. JAM-C may therefore provide a novel molecular target for antagonizing interactions between vascular cells in atherosclerosis. JAM-C was shown to undergo a heterophilic interaction with the leukocyte beta2 integrin Mac-1, thereby mediating interactions between vascular cells in inflammatory cell recruitment. The homophilic interaction of JAM-C can mediate tumor cell-endothelial cell interactions and may thereby be involved in the process of tumor cell metastasis.