# Junctional Adhesion Molecule C, JAM3 (JAM3) ELISA Kit for Mouse

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Junctional adhesion molecule C, JAM3, ELISA Kit |
| **Full Product Name** | Mouse Junctional adhesion molecule C, JAM3 ELISA Kit |
| **Product Gene Name** | JAM3 elisa kit |
| **Species Reactivity** | Mouse |
| **Assay Type** | Quantitative Sandwich |
| **Samples** | Serum, plasma, cell culture supernates, cell lysates, tissue homogenates and other biological fluids. |
| **Detection Range** | 3ng/L-900 ng/L |
| **Sensitivity** | 1.63 ng/L |
| **Preparation and Storage** | Store at 2 to 8 degree C for 6 months. |
| **OMIM** | 606871 |
| **3D Structure** | ModBase 3D Structure for Q9BX67 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for JAM3 elisa kit** | MBS1605186 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Junctional adhesion molecule C, JAM3, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing JAM3. The ELISA analytical biochemical technique of the MBS1605186 kit is based on JAM3 antibody-JAM3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect JAM3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, JAM3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of JAM3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JAM3. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 328927055 |
| **NCBI GeneID** | 83700 |
| **UniProt Primary Accession #** | Q9BX67 |
| **UniProt Related Accession #** | Q9BX67 |
| **GenBank Nucleotide #** | NP_116190.3 |
| **NCBI Official Full Name** | junctional adhesion molecule C isoform 1 |
| **NCBI Official Synonym Full Names** | junctional adhesion molecule 3 |
| **NCBI Official Symbol** | JAM3 |
| **NCBI Official Synonym Symbols** | JAMC; JAM-2; JAM-3; JAM-C |
| **UniProt Protein Name** | Junctional adhesion molecule C |

| | |
|---|---|
| **UniProt Synonym Protein Names** | JAM-2; Junctional adhesion molecule 3; JAM-3 |
| **Protein Family** | Junctional adhesion molecule |
| **UniProt Gene Name** | JAM3 |
| **UniProt Synonym Gene Names** | JAM-C; JAM-3 |
| **UniProt Entry Name** | JAM3_HUMAN |
| **NCBI Protein Information** | junctional adhesion molecule C |
| **NCBI Summary for JAM3** | Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. The protein encoded by this immunoglobulin superfamily gene member is localized in the tight junctions between high endothelial cells. Unlike other proteins in this family, the this protein is unable to adhere to leukocyte cell lines and only forms weak homotypic interactions. The encoded protein is a member of the junctional adhesion molecule protein family and acts as a receptor for another member of this family. A mutation in an intron of this gene is associated with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011] |
| **UniProt Comments for JAM3** | JAM3: Participates in cell-cell adhesion. It is a counter- receptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). The soluble form is a mediator of angiogenesis. Defects in JAM3 are the cause of hemorrhagic destruction of the brain with subependymal calcification and cataracts (HDBSCC). A syndrome characterized by congenital cataracts and severe brain abnormalities apparently resulting from hemorrhagic destruction of the brain tissue, including the cerebral white matter and basal ganglia. Patients manifest profound developmental delay, and other neurologic features included seizures, spasticity, and hyperreflexia. Brain imaging shows multifocal intraparenchymal hemorrhage with associated liquefaction and massive cystic degeneration, and calcification in the subependymal region and in brain tissue. Belongs to the immunoglobulin superfamily. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral; Cell adhesion<br><br>Chromosomal Location of Human Ortholog: 11q25<br><br>Cellular Component: Golgi apparatus; desmosome; extracellular space; tight junction; plasma membrane; integral to membrane<br><br>Molecular Function: integrin binding; protein binding; protein homodimerization activity; protein heterodimerization activity<br><br>Biological Process: myelination; adaptive immune response; extracellular matrix organization and biogenesis; axon regeneration; cell-matrix adhesion; transmission of nerve impulse; neutrophil homeostasis; leukocyte migration during inflammatory response; myeloid progenitor cell differentiation; establishment of cell polarity; angiogenesis; blood coagulation; leukocyte migration; spermatid development<br><br>Disease: Hemorrhagic Destruction Of The Brain, Subependymal Calcification, And Cataracts |
| **Research Articles on JAM3** | **1.** Jam3 enhances the migratory ability of renal carcinoma cells. Jam3 degeneration induces apoptosis of renal carcinoma cells. The knockdown of Jam3 inhibited renal carcinoma cell migration and promoted renal carcinoma cell apoptosis. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |

| | |
|---|---|
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/mouse-elisa-kits/junctional-adhesion-molecule-c-jam3/1605186