Junctional Adhesion Molecule C (JAM3) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Junctional Adhesion Molecule C (Jam3), ELISA Kit
Full Product Name	Rat Junctional Adhesion Molecule C ELISA Kit
Product Gene Name	Jam3 elisa kit
Species Reactivity	Rat
Assay Type	sandwich
Samples	cell culture supernates, serum and plasma (heparin, EDTA)
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	<5pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)
Molecular Weight	34,783 Da
3D Structure	ModBase 3D Structure for Q68FQ2
Detection Target	Junctional Adhesion Molecule C
Immunogen Sequence	369
Related Product Information for Jam3 elisa kit	This Rat Junctional Adhesion Molecule C ELISA Kit is intended for quantitative detection of rat JAM-C in cell culture supernates, serum and plasma (heparin, EDTA). Strip well format. Reagents for up to 96 tests. This rat JAM-C ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for JAM-C has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: V32-N241) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for JAM-C is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Fibronectin amount of sample captured in plate. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated detection polyclonal antibody from goat. Expression system for standard: JAM3 belongs to the junctional adhesion molecule protein family and functions as a receptor for another member of this family. This gene is mapped to 8q13. JAM3 plays a part in cell-cell adhesion. The soluble form of JAM3 is a mediator of angiogenesis. JAM3 is a counter-receptor for ITGAM, mediating leukocyteplatelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). A mutation in an intron of the JAM3 gene is linked with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts.
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.
Searchable Terms for Jam3 purchase	MBS8421483 is a ready-to-use microwell, strip-or-full 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 MBS8421483 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Jam3. It may not necessarily be applicable to this product.

NCBI GI #	51948508
NCBI GeneID	315509
NCBI Accession #	NP_001004269.1
UniProt Primary Accession #	Q68FQ2
UniProt Related Accession #	Q68FQ2
GenBank Nucleotide #	NM_001004269.1
NCBI Official Full Name	junctional adhesion molecule C
NCBI Official Synonym Full Names	junctional adhesion molecule 3
NCBI Official Symbol	Jam3
UniProt Protein Name	Junctional adhesion molecule C
UniProt Synonym Protein Names	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_RAT
NCBI Protein Information	junctional adhesion molecule C; JAM-3; JAM-C
UniProt Comments for Jam3	**Function:** May participate in cell-cell adhesion distinct from tight junctions
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.
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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.

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