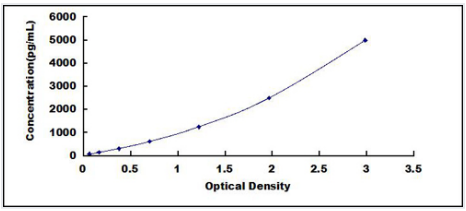
Multimerin 1 (MMRN1) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Multimerin 1 (MMRN1), ELISA Kit
Full Product Name	Rat Multimerin 1 (MMRN1) ELISA Kit
Product Gene Name	MMRN1 elisa kit
Product Synonym Names	ECM; EMILIN4; GPIa; MMRN; Glycoprotein Ia; Elastin microfibril interface located protein 4; Endothelial cell multimerin; Platelet glycoprotein Ia; 155 kDa platelet multimerin
Species Reactivity	Rat
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	78-5,000pg/mL
Sensitivity	< 34pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Multimerin 1 (MMRN1). No significant cross-reactivity or interference between Multimerin 1 (MMRN1) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	58,170 Da
OMIM	U27109 mRNA
3D Structure	ModBase 3D Structure for Q13201
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Multimerin 1 (MMRN1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Multimerin 1 (MMRN1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.

Related Product Information for MMRN1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Multimerin 1 (MMRN1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Multimerin 1 (MMRN1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Multimerin 1 (MMRN1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Multimerin 1 (MMRN1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of MMRN1 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 MMRN1 purchase	MBS2704581 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Multimerin 1 (MMRN1) 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 MMRN1. The ELISA analytical biochemical technique of the MBS2704581 kit is based on MMRN1 antibody-MMRN1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MMRN1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MMRN1. 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(%).



Typical Testing Data/Standard Curve (for reference only) of MMRN1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MMRN1. It may not necessarily be applicable to this product.

NCBI GI #	45269141
NCBI GeneID	22915
NCBI Accession #	NP_031377.2
UniProt Primary Accession #	Q13201
UniProt Secondary Accession #	Q4W5L1; Q6P3T8; Q6ZUL9
UniProt Related Accession #	Q13201
GenBank Nucleotide #	NM_007351.2
NCBI Official Full Name	multimerin-1
NCBI Official Synonym Full Names	multimerin 1
NCBI Official Symbol	MMRN1
NCBI Official Synonym Symbols	ECM; MMRN; GPIa*; EMILIN4
UniProt Protein Name	Multimerin-1
UniProt Synonym Protein Names	EMILIN-4; Elastin microfibril interface located protein 4; Elastin microfibril interfacer 4
Protein Family	Multimerin
UniProt Gene Name	MMRN1
UniProt Synonym Gene Names	ECM; EMILIN4; GPIA*; MMRN; Elastin microfibril interfacer 4; p-155; p155

NCBI Protein Information	multimerin-1
NCBI Summary for MMRN1	Multimerin is a massive, soluble protein found in platelets and in the endothelium of blood vessels. It is comprised of subunits linked by interchain disulfide bonds to form large, variably sized homomultimers. Multimerin is a factor V/Va-binding protein and may function as a carrier protein for platelet factor V. It may also have functions as an extracellular matrix or adhesive protein. Recently, patients with an unusual autosomal-dominant bleeding disorder (factor V Quebec) were found to have a deficiency of platelet multimerin. [provided by RefSeq, Jul 2008]
UniProt Comments for MMRN1	Carrier protein for platelet (but not plasma) factor V/Va. Plays a role in the storage and stabilization of factor V in platelets. Upon release following platelet activation, may limit platelet and plasma factor Va-dependent thrombin generation. Ligand for integrin alpha-IIb/beta-3 and integrin alpha-V/beta-3 on activated platelets, and may function as an extracellular matrix or adhesive protein.
Research Articles on MMRN1	**1.** Lower levels of anti-elastin are related to CAD [coronary artery disease]
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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