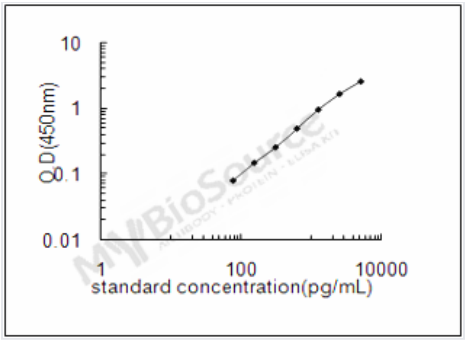
Disintegrin and Metalloproteinase Domain-Containing Protein 9 (ADAM9) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Disintegrin and metalloproteinase domain-containing protein 9 (ADAM9), ELISA Kit
Full Product Name	Human Disintegrin and metalloproteinase domain-containing protein 9 ELISA Kit
Product Gene Name	ADAM9 elisa kit
Product Synonym Names	Disintegrin and metalloproteinase domain-containing protein 9; ADAM 9; Cellular disintegrin-related protein; Meltrin-gamma; Metalloprotease/disintegrin/cysteine-rich protein 9; Myeloma cell
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	78-5000 pg/mL
Sensitivity	34pg/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	72,359 Da
OMIM	602713
3D Structure	ModBase 3D Structure for Q13443
Intra-Assay CV	<=4.1%
Inter-Assay CV	<=7.1%
Recovery	101%
Related Product Information for ADAM9 elisa kit	MBS289355 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Disintegrin and metalloproteinase domain-containing protein 9 (ADAM9) 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 ADAM9. The ELISA analytical biochemical technique of the MBS289355 kit is based on ADAM9 antibody-ADAM9 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAM9 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAM9. 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 ADAM9 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.



Typical Testing Data/Standard Curve (for reference only) of ADAM9 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAM9. It may not necessarily be applicable to this product.

NCBI GI #	4501915
NCBI GeneID	8754
NCBI Accession #	NP_003807.1
UniProt Primary Accession #	Q13443
UniProt Secondary Accession #	Q10718; Q8NFM6; B7ZLN7
UniProt Related Accession #	Q13443
GenBank Nucleotide #	NM_003816.2
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 9
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 9
NCBI Official Symbol	ADAM9
NCBI Official Synonym Symbols	MCMP; MDC9; CORD9; Mltng
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 9
UniProt Synonym Protein Names	Cellular disintegrin-related protein; Meltrin-gamma; Metalloprotease/disintegrin/cysteine-rich protein 9; Myeloma cell metalloproteinase
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM9
UniProt Synonym Gene Names	KIAA0021; MCMP; MDC9; MLTNG; ADAM 9
UniProt Entry Name	ADAM9_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 9
NCBI Summary for ADAM9	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene interacts with SH3 domain-containing proteins, binds mitotic arrest deficient 2 beta protein, and is also involved in TPA-induced ectodomain shedding of membrane-anchored heparin-binding EGF-like growth factor. Several alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2010]

UniProt Comments for ADAM9	ADAM9: Probable zinc protease. May mediate cell-cell or cell- matrix interactions. Isoform 2 displays alpha-secretase activity for APP. Widely expressed. Expressed in chondrocytes. Isoform 2 is highly expressed in liver and heart. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.24.-; Motility/polarity/chemotaxis; Membrane protein, integral; Protease Chromosomal Location of Human Ortholog: 8p11.22 Cellular Component: cell surface; cytoplasm; extracellular space; focal adhesion; integral to membrane Molecular Function: collagen binding; integrin binding; laminin binding; metalloendopeptidase activity; metallopeptidase activity; protein binding; protein kinase C binding; SH3 domain binding; zinc ion binding Biological Process: activation of MAPKK activity; cell adhesion; cell adhesion mediated by integrin; cell-cell adhesion mediated by integrin; cell-matrix adhesion; collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; integrin-mediated signaling pathway; keratinocyte differentiation; membrane protein ectodomain proteolysis; monocyte activation; PMA-inducible membrane protein ectodomain proteolysis; positive regulation of cell adhesion mediated by integrin; positive regulation of keratinocyte migration; positive regulation of membrane protein ectodomain proteolysis; positive regulation of protein secretion; response to calcium ion; response to glucocorticoid stimulus; response to hydrogen peroxide; response to manganese ion; transforming growth factor beta receptor signaling pathway Disease: Cone-rod Dystrophy 9
Research Articles on ADAM9	**1.** Whole exome sequencing was performed, which identified a novel, homozygous mutation in ADAM9, c.967delT; p.Ser323Glnfs*33.
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