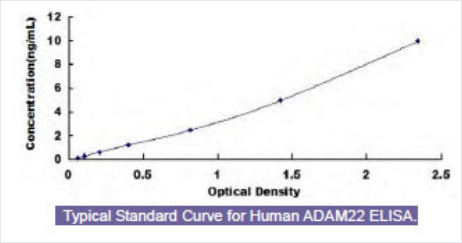
A Disintegrin and Metalloprotease 22 (ADAM22) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	A Disintegrin And Metalloprotease 22 (ADAM22), ELISA Kit
Full Product Name	Human A Disintegrin And Metalloprotease 22 (ADAM22) ELISA Kit
Product Gene Name	ADAM22 elisa kit
Product Synonym Names	MDC2; Disintegrin And Metalloproteinase Domain-Containing Protein 22; Metalloproteinase-Like,Disintegrin-Like,And Cysteine-Rich Protein 2
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of ADAM22. No significant cross-reactivity or interference between ADAM22 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ADAM22 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ADAM22 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	96,637 Da
OMIM	AB009671 mRNA
3D Structure	ModBase 3D Structure for Q9P0K1
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ADAM22 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ADAM22 in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ADAM22. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ADAM22. 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 ADAM22, 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 ADAM22 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of ADAM22 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 ADAM22 purchase	MBS453287 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the A Disintegrin And Metalloprotease 22 (ADAM22) 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 ADAM22. The ELISA analytical biochemical technique of the MBS453287 kit is based on ADAM22 antibody-ADAM22 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAM22 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAM22. 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 ADAM22 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAM22. It may not necessarily be applicable to this product.

NCBI GI #	4757722
NCBI GeneID	53616
NCBI Accession #	NP_004185.1
UniProt Primary Accession #	Q9P0K1
UniProt Secondary Accession #	O75075; O75076; Q9P0K2; Q9UIA1; Q9UKK2
UniProt Related Accession #	Q9P0K1
GenBank Nucleotide #	NM_004194.4
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 22 isoform 4
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 22
NCBI Official Symbol	ADAM22
NCBI Official Synonym Symbols	MDC2; ADAM 22
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 22
UniProt Synonym Protein Names	Metalloproteinase-disintegrin ADAM22-3; Metalloproteinase-like, disintegrin-like, and cysteine-rich protein 2
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM22
UniProt Synonym Gene Names	MDC2; ADAM 22
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 22
NCBI Summary for ADAM22	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. Unlike other members of the ADAM protein family, the protein encoded by this gene lacks metalloprotease activity since it has no zinc-binding motif. This gene is highly expressed in the brain and may function as an integrin ligand in the brain. In mice, it has been shown to be essential for correct myelination in the peripheral nervous system. Alternative splicing results in several transcript variants.[provided by RefSeq, Dec 2010]

UniProt Comments for ADAM22	Probable ligand for integrin in the brain. This is a non catalytic metalloprotease-like protein (PubMed:19692335). Involved in regulation of cell adhesion and spreading and in inhibition of cell proliferation. Neuronal receptor for LGI1.
Research Articles on ADAM22	**1.** Disruption of LGI1-ADAM22 interaction reduces synaptic AMPA receptors in hippocampal neurons.
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