Disintegrin and Metalloproteinase Domain-Containing Protein 33 (ADAM33) ELISA Kit for Human

PRODUCT OVERVIEW

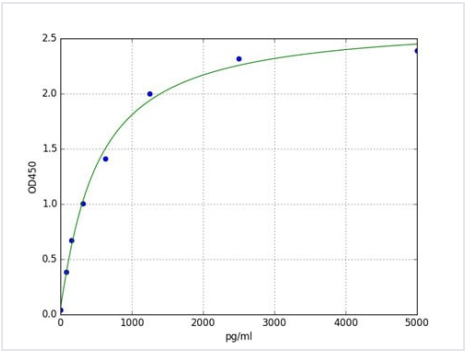
Product Name	Disintegrin and metalloproteinase domain-containing protein 33 (ADAM33), ELISA Kit
Full Product Name	Human Disintegrin and metalloproteinase domain-containing protein 33 ELISA Kit
Product Gene Name	ADAM33 elisa kit
Product Synonym Names	ADAM33/Disintegrin and metalloproteinase domain-containing protein 33/ADAM 33/ADAM metallopeptidase domain 33/C20orf153/chromosome 20 open reading frame 153/disintegrin and metalloproteinase domain-containing protein 33/disintegrin and reprolysin metalloproteinase family protein
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	32,554 Da
OMIM	600807
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ADAM33 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human ADAM33 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human ADAM33 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 ADAM33 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human ADAM33 can be calculated.
Other Notes	Small volumes of ADAM33 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 ADAM33 purchase	MBS761161 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 33 (ADAM33) 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 ADAM33. The ELISA analytical biochemical technique of the MBS761161 kit is based on ADAM33 antibody-ADAM33 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAM33 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAM33. 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 Data & Standard Curve

Results of a typical standard run of a Human ADAM33 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	78	156	312.5	625	1250	2500	5000
Y	OD450	0.005	0.156	0.337	0.645	0.898	1.521	1.834	2.244

Typical Testing Data of ADAM33 elisa kit



Typical Standard Curve of ADAM33 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAM33. It may not necessarily be applicable to this product.

NCBI GI #	540344525
NCBI GeneID	80332
NCBI Accession #	NP_001269376.1
UniProt Secondary Accession #	Q5JT75; Q5JT76; Q8N0W6; A0A1K6
UniProt Related Accession #	Q9BZ11
GenBank Nucleotide #	NM_001282447.1
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 33 isoform gamma preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 33
NCBI Official Symbol	ADAM33
NCBI Official Synonym Symbols	C20orf153; DJ964F7.1
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 33
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM33
UniProt Synonym Gene Names	C20orf153; ADAM 33
UniProt Entry Name	ADA33_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 33
NCBI Summary for ADAM33	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. This protein is a type I transmembrane protein implicated in asthma and bronchial hyperresponsiveness. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2013]

UniProt Comments for ADAM33	ADAM33: Genetic variations in ADAM33 are associated with susceptibility to asthma (ASTHMA). The most common chronic disease affecting children and young adults. It is a complex genetic disorder with a heterogeneous phenotype, largely attributed to the interactions among many genes and between these genes and the environment. It is characterized by recurrent attacks of paroxysmal dyspnea, with weezing due to spasmodic contraction of the bronchi. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.24.-; Protease; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 20p13 Cellular Component: integral to membrane Molecular Function: metalloendopeptidase activity; protein binding; zinc ion binding Biological Process: proteolysis
Research Articles on ADAM33	**1.** a compromised ADAM33 gene may be implicated in the progression of wheeze into childhood asthma
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. 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/adam33-human-elisa-kits/disintegrin-and-metalloproteinase-domain-containing-protein-33/761161