ADAM8 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	ADAM8, ELISA Kit
Full Product Name	Human ADAM8 ELISA Kit
Product Gene Name	ADAM8 elisa kit
Species Reactivity	Human
Assay Type	sandwich
Samples	cell culture supernates and serum
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<10pg/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	88,771 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (135075920..135090407, complement). Location: 10q26.3
OMIM	602267
3D Structure	ModBase 3D Structure for P78325
Detection Target	ADAM8
Immunogen Sequence	369
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Related Product Information for ADAM8 elisa kit	This Human ADAM8 ELISA Kit is intended for quantitative detection of human ADAM8 in cell culture supernates and serum. Strip well format. Reagents for up to 96 tests. This human ADAM8 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for ADAM8 has been precoated onto 96-well plates. Standards (NSO, M1-P497) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ADAM8 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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 ADAM8 amount of sample captured in plate. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. Expression system for standard: A Disintegrin and metalloproteinase domain-containing protein 8 is an enzyme that in humans is encoded by the ADAM8 gene. ADAM8 is localized to chromosome 10q26.3. This gene encodes a member of the ADAM (a disintegrin and metalloproteinase domain) family. Members of the ADAM family, such as ADAM8, are cell surface proteases involved in remodeling of extracellular matrix, cell migration, and processing of membrane-bound signaling molecules. They are characterized by disintegrin and metalloprotease domains that confer adhesive properties and proteolytic activities, respectively. And the protein encoded by this gene may be involved in cell adhesion duringneurodegeneration.
Other Notes	Small volumes of ADAM8 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 ADAM8 purchase	MBS136856 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the ADAM8, 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 ADAM8. The ELISA analytical biochemical technique of the MBS136856 kit is based on ADAM8 antibody-ADAM8 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAM8 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAM8. 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 ADAM8. It may not necessarily be applicable to this product.

NCBI GI #	109731932
NCBI GeneID	101
NCBI Accession #	AAI15405.1
UniProt Primary Accession #	P78325
UniProt Secondary Accession #	B4DVM6; H0YL36; H0YLR0; H0YN39
UniProt Related Accession #	P78325
NCBI Official Full Name	ADAM8 protein
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 8
NCBI Official Symbol	ADAM8
NCBI Official Synonym Symbols	MS2; CD156
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 8
UniProt Synonym Protein Names	Cell surface antigen MS2
Protein Family	Disintegrin and metalloproteinase domain-containing protein
UniProt Gene Name	ADAM8
UniProt Synonym Gene Names	MS2; ADAM 8
UniProt Entry Name	ADAM8_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 8; cell surface antigen MS2; human leukocyte differentiation antigen; a disintegrin and metalloproteinase domain 8
NCBI Summary for ADAM8	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 may be involved in cell adhesion during neurodegeneration, and it is thought to be a target for allergic respiratory diseases, including asthma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2009]

UniProt Comments for ADAM8	ADAM8: Possible involvement in extravasation of leukocytes. Protein type: Protease; Membrane protein, integral; EC 3.4.24.-; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10q26.3 Cellular Component: specific granule; cell surface; integral to plasma membrane; cytoplasm; plasma membrane; podosome; dense core granule membrane Molecular Function: protein binding; protein self-association; metallopeptidase activity; zinc ion binding; metalloendopeptidase activity; cell adhesion molecule binding; calcium ion binding Biological Process: extracellular matrix organization and biogenesis; positive regulation of cell adhesion; cell morphogenesis; proteolysis; positive regulation of membrane protein ectodomain proteolysis; leukocyte migration during inflammatory response; activation of NF-kappaB transcription factor; positive regulation of T cell differentiation in the thymus; extracellular matrix disassembly; positive regulation of protein kinase B signaling cascade; cell-cell adhesion; regulation of cell-cell adhesion; positive regulation of protein secretion; positive regulation of acute inflammatory response; positive regulation of bone resorption; angiogenesis; negative regulation of neuron apoptosis; inflammatory response; lymphocyte chemotaxis
Research Articles on ADAM8	**1.** These findings suggest for the first time that ADAM8 is frequently overexpressed in human gliomas and is closely associated with poor clinical outcome.
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