



Human A Disintegrin And Metalloprotease 9,ADAM9 ELISA Kit

Product Code	CSB-E11904h
Abbreviation	ADAM9
Target Name	ADAM metalloproteinase domain 9 (meltrin gamma)
Uniprot No.	Q13443
Alias	CORD9, KIAA0021, MCMP, MDC9, Mltng, ADAM metalloproteinase domain 9 a disintegrin and metalloproteinase domain 9 (meltrin gamma) cellular disintegrin-related protein meltrin gamma myeloma cell metall
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell culture supernates, ascitic fluid
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	ADAM9
Tag Info	quantitative
Protein Description	Sandwich

Description

The ELISA Kit is designed for quantitatively measuring human ADAM9 levels in samples, including serum, plasma, tissue homogenates, cell culture supernates, or ascitic fluid. It uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of ADAM9 in samples. The color intensity is measured at 450 nm via a microplate reader.

ADAM9 is a metzincin cell-surface protease involved in several biological processes such as myogenesis, fertilization, cell migration, inflammatory response, proliferation, and cell-cell interactions. It is involved in inflammation, degenerative diseases, and cancer. In inflammation, ADAM9 contributes to monocyte fusion, mediating the conversion of monocytes-macrophages to multinucleated giant cells (MGCs) in response to foreign bodies or bacteria. The generated granulomatous lesions help to isolate the pathogens and also



enhance phagocytotic activity. ADAM9 has been found over-expressed in several solid tumors such as glioma, melanoma, prostate cancer, pancreatic ductal adenocarcinoma, as well as gastric, breast, lung, and liver cancers. Upregulation of ADAM9 is associated with tumor aggressiveness and poor prognosis.

Target Details

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 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. Two alternative splice variants have been identified, encoding distinct isoforms.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%
Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human ADAM9 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	96
1:1	Range %	9-101
	Average %	87
1:2	Range %	84-92
	Average %	95
1:4	Range %	92-97
	Average %	93
1:8	Range %	89-99

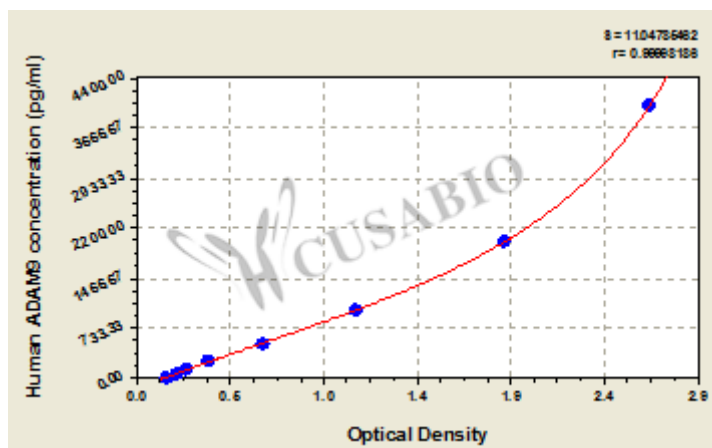
Recovery

The recovery of human ADAM9 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	90	87-93
EDTA plasma (n=4)	93	89-95

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
4000	2.657	2.557	2.607	2.445
2000	1.924	1.824	1.874	1.712
1000	1.126	1.116	1.121	0.959
500	0.655	0.645	0.650	0.488
250	0.380	0.370	0.375	0.213
125	0.271	0.261	0.266	0.104
62.5	0.215	0.212	0.214	0.052
0	0.163	0.161	0.162	?

Msds

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