

Datasheet for ABIN2859343

**ADAM9 ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	96 tests
Target:	ADAM9
Binding Specificity:	AA 29-697
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ADAM9
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: A29-D697
Specificity:	Expression system for standard: NSO Immunogen sequence: A29-D697
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

Target:	ADAM9
Alternative Name:	ADAM9 ( <a href="#">ADAM9 Products</a> )
Background:	<p>Protein Function: Probable zinc protease. May mediate cell-cell or cell- matrix interactions. Isoform 2 displays alpha-secretase activity for APP. .</p> <p>Background: Disintegrin and metalloproteinase domain-containing protein 9, also known as MCMP or MDC9 is an enzyme that in humans is encoded by the ADAM9 gene. This gene encodes a member of the ADAM('a disintegrin and metalloproteinase') family and exhibits a number of characteristics of class III repolysins. This gene is mapped to 8p11.22. 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.</p> <p>Synonyms: Disintegrin and metalloproteinase domain-containing protein 9,ADAM 9,3.4.24.- ,Cellular disintegrin-related protein,Meltrin-gamma,Metalloprotease/disintegrin/cysteine-rich protein 9,Myeloma cell metalloproteinase,ADAM9,KIAA0021, MCMP, MDC9, MLTNG,</p> <p>Full Gene Name: Disintegrin and metalloproteinase domain-containing protein 9</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	8754
UniProt:	<a href="#">Q13443</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">SARS-CoV-2 Protein Interactome</a>

## Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 1 disintegrin domain. Tissue Specificity: Widely expressed. Expressed in chondrocytes. Isoform 2 is highly expressed

## Application Details

in liver and heart. .

Plate: Pre-coated

Protocol: human ADAM9 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for ADAM9 has been precoated onto 96-well plates. Standards(NSO, A29-D697) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ADAM9 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 ADAM9 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human ADAM9 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human ADAM9 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 145, Standard deviation: 7.54, CV(%): 5.2
- Sample 2: n=16, Mean(pg/ml): 363, Standard deviation: 20.69, CV(%): 5.7
- Sample 3: n=16, Mean(pg/ml): 594, Standard deviation: 36.23, CV(%): 6.1,
- Sample 1: n=24, Mean(pg/ml): 176, Standard deviation: 11.44, CV(%): 6.5
- Sample 2: n=24, Mean(pg/ml): 380, Standard deviation: 28.12, CV(%): 7.4
- Sample 3: n=24, Mean(pg/ml): 658, Standard deviation: 51.98, CV(%): 7.9

Restrictions: For Research Use only

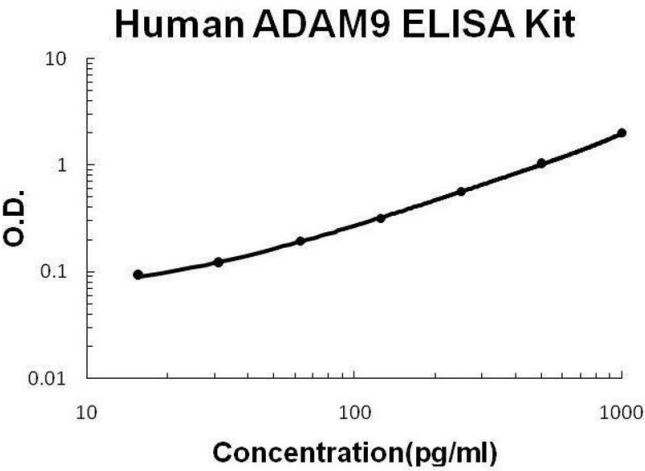
## Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: -20 °C, 4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months



**ELISA**

**Image 1.** Human ADAM9 PicoKine ELISA Kit standard curve