

Product datasheet

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ARG81933 Human ADAM15 ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81933-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81933-002	Standard	2 X 10 ng/vial	4°C
ARG81933-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81933-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81933-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81933-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81933-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81933-008	25X Wash buffer	20 ml	4°C
ARG81933-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81933-010	STOP solution	10 ml (Ready to use)	4°C
ARG81933-011	Plate sealer	4 strips	Room temperature

Summary

Conjugation

Product Description

	ADAM15 in serum, plasma (heparin, EDTA) and cell culture supernatants.			
Tested Reactivity	Hu			
Tested Application	ELISA			

ARG81933 Human ADAM15 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name ADAM15

HRP **Conjugation Note** Substrate: TMB and read at 450 nm.

Sensitivity 31.25 pg/ml

Sample Type Serum, plasma (heparin, EDTA) and cell culture supernatants.

Standard Range 62.5 - 4000 pg/ml

Sample Volume 100 μΙ Precision Intra-Assay CV: 5.5%; Inter-Assay CV: 6.6%

Alternate Names ADAM 15; MDC-15; EC 3.4.24.-; Metargidin; Metalloproteinase-like, disintegrin-like, and cysteine-rich

protein 15; Metalloprotease RGD disintegrin protein; MDC15; Disintegrin and metalloproteinase

domain-containing protein 15

Application Instructions

Assay Time

~ 5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol ADAM15

Gene Full Name ADAM metallopeptidase domain 15

Background The protein encoded by this gene is a member of the ADAM (a disintegrin and metalloproteinase)

protein family. ADAM family members are type I transmembrane glycoproteins known to be involved in cell adhesion and proteolytic ectodomain processing of cytokines and adhesion molecules. This protein contains multiple functional domains including a zinc-binding metalloprotease domain, a disintegrin-like domain, as well as a EGF-like domain. Through its disintegrin-like domain, this protein specifically interacts with the integrin beta chain, beta 3. It also interacts with Src family protein-tyrosine kinases in a phosphorylation-dependent manner, suggesting that this protein may function in cell-cell adhesion as well as in cellular signaling. Multiple alternatively spliced transcript variants encoding distinct isoforms

have been observed. [provided by RefSeq, Jul 2008]

Function Active metalloproteinase with gelatinolytic and collagenolytic activity. Plays a role in the wound healing

process. Mediates both heterotypic intraepithelial cell/T-cell interactions and homotypic T-cell aggregation. Inhibits beta-1 integrin-mediated cell adhesion and migration of airway smooth muscle cells. Suppresses cell motility on or towards fibronectin possibly by driving alpha-v/beta-1 integrin (ITAGV-ITGB1) cell surface expression via ERK1/2 inactivation. Cleaves E-cadherin in response to growth

factor deprivation. Plays a role in glomerular cell migration. Plays a role in pathological

neovascularization. May play a role in cartilage remodeling. May be proteolytically processed, during sperm epididymal maturation and the acrosome reaction. May play a role in sperm-egg binding through

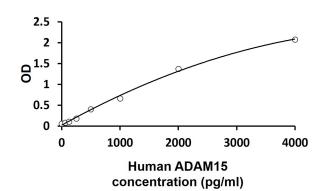
its disintegrin domain. [UniProt]

Highlight Related products:

ADAM antibodies; ADAM ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM The precursor is cleaved by a furin endopeptidase.

Phosphorylation increases association with PTKs. [UniProt]



ARG81933 Human ADAM15 ELISA Kit standard curve image

ARG81933 Human ADAM15 ELISA Kit results of a typical standard run with optical density reading at $450 \ \text{nm}$.