

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

Product Description	ARG81933 Human ADAM15 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ADAM15 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ADAM15
Conjugation	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 µl

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

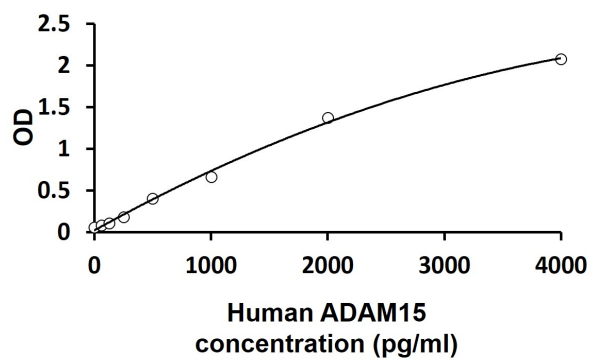
Assay Time	~ 5 hours
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Properties

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 metalloproteinase 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 nm.