

Datasheet for ABIN5510655
ADAM15 ELISA Kit

1 Image



[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	ADAM15
Binding Specificity:	AA 207-696
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ADAM15
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: D207-T696
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: Expressed in colon and small intestine. Expressed in airway smooth muscle and glomerular mesangial cells (at protein level). Ubiquitously expressed. Overexpressed in atherosclerotic lesions. Constitutively expressed in cultured endothelium and smooth muscle. Expressed in chondrocytes. Expressed in airway smooth muscle and glomerular mesangial cells. .

Target Details

Target: ADAM15

Alternative Name: ADAM15 ([ADAM15 Products](#))

Background: Protein 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. .

Background: Disintegrin and metalloproteinase domain-containing protein 15 is an enzyme that in humans is encoded by the ADAM15 gene. 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 an 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.

Synonyms: Disintegrin and metalloproteinase domain-containing protein 15,ADAM 15,3.4.24.-,Metalloprotease RGD disintegrin protein,Metalloproteinase-like, disintegrin-like, and cysteine-rich protein 15,MDC-15,Metargidin,ADAM15,MDC15,

Full Gene Name: Disintegrin and metalloproteinase domain-containing protein 15

Cellular Localisation: Endomembrane system, Single-pass type I membrane protein . Cell junction, adherens junction . Cell projection, cilium, flagellum . Cytoplasmic vesicle, secretory vesicle, acrosome . The majority of the protein is localized in a perinuclear compartment which may correspond to the trans-Golgi network or the late endosome. The pro-protein is the major detectable form on the cell surface, whereas the majority of the protein in the cell is processed (By similarity)..

UniProt: [Q13444](#)

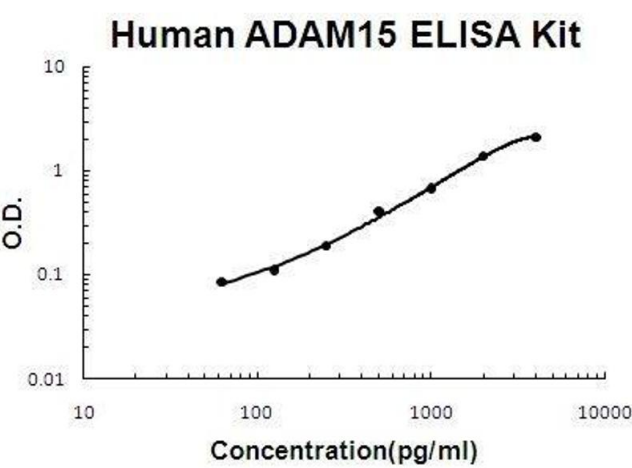
Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)
Expiry Date:	12 months

Images



ELISA

Image 1. Human ADAM15 PicoKine ELISA Kit standard curve