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ADAM12 ELISA Kit





Overview

Quantity:	96 tests
Target:	ADAM12
Binding Specificity:	AA 29-513
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

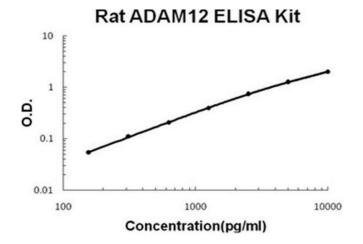
Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat ADAM12
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: CHO Immunogen sequence: R29-S513
Specificity:	Expression system for standard: CHO Immunogen sequence: R29-S513
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:	ADAM12
Alternative Name:	ADAM12 (ADAM12 Products)
Background:	Background: ADAM12(Disintegrin and metalloproteinase domain-containing protein 12), also known as MLTN, is an enzyme that in humans is encoded by the ADAM12 gene. This gene encodes a member of the ADAM (a disintegrin and metalloprotease) protein 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 gene has two alternatively spliced transcripts: a shorter secreted form and a longer membrane-bound form. The shorter form is found to stimulate myogenesis. By RT-PCR and immunoblot analyses that expression of mouse Adam12 increases during muscle regeneration, while the levels of other ADAMs remain constant. Immunofluorescence analysis revealed staining of small, newly formed muscle fibers in regenerating but not normal adult muscle cells. By using of fluorescence in situ hybridization, the ADAM12 gene is mapped to human chromosome 10q26.3. Synonyms: Protein Adam12, Adam12, Full Gene Name: ADAM metallopeptidase domain 12
Gene ID:	679837
UniProt:	F1M9Z9
Pathways:	EGFR Signaling Pathway
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.

Application Details

Plate:	Pre-coated
Protocol:	rat ADAM12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for ADAM12 has been precoated onto
	96-well plates. Standards(CHO, R29-S513) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for ADAM12 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 rat ADAM12 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL rat ADAM12 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 rat cell culture supernates, serum or plasma(heparin) to each empty
	well. See "Sample Dilution Guideline" above for details. It is recommended that each rat
	ADAM12 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(ng/ml): 1.46, Standard deviation: 0.066, CV(%): 4.5
	 Sample 2: n=16, Mean(ng/ml): 3.65, Standard deviation: 0.139, CV(%): 3.8
	• Sample 3: n=16, Mean(ng/ml): 6.89, Standard deviation: 0.234, CV(%): 3.4,
	 Sample 1: n=24, Mean(ng/ml): 1.55, Standard deviation: 0.088, CV(%): 5.7 Sample 2: n=24, Mean(ng/ml): 3.81, Standard deviation: 0.175, CV(%): 4.6
	 Sample 3: n=24, Mean(ng/ml): 6.92, Standard deviation: 0.324, CV(%): 4.7
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. Rat ADAM12 PicoKine ELISA Kit standard curve