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Datasheet for ABIN2859342 **ADAMTS1 ELISA Kit**

1 Image

1 Publication



Overview

Quantity:	96 tests	
Target:	ADAMTS1	
Binding Specificity:	AA 253-734	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Detection Range:	93.8-6000 pg/mL	
Minimum Detection Limit:	93.8 pg/mL	
Application:	ELISA	

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ADAMTS1	
Brand:	PicoKine™	
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Immunogen:	Expression system for standard: NSO Immunogen sequence: F253-A734	
Specificity:	Expression system for standard: NSO Immunogen sequence: F253-A734	
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.	

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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:	ADAMTS1	
Alternative Name:	ADAMTS1 (ADAMTS1 Products)	
Background:	Protein Function: Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its	
	turnover (By similarity). Has angiogenic inhibitor activity. Active metalloprotease, which may be	
	associated with various inflammatory processes as well as development of cancer cachexia.	
	May play a critical role in follicular rupture	
	Background: ADAMTS1 (A Disintegrin-Like and Metalloproteinase with Thrombospondin Type 7	
	Motif, 1), also known as METH1, is an enzyme that in humans is encoded by the ADAMTS1	
	gene. ADAMTS is a family of proteins believed to be anchored to the extracellular matrix (ECM)	
	through interactions with aggregan or other matrix components by one or more	
	thrombospondin type 1 motifs. ADAMTS1 gene is mapped to 21q21.2 based on sequence	
	similarity between the ADAMTS1 sequence and a chromosome 21q21.2 clone. It has been	
	found that ADAMTS1 can disrupt angiogenesis in vivo and in vitro more efficiently than	
	ADAMTS8, THBS1, or endostatin. What's more, ADAMTS1 disrupts angiogenesis in vivo and	
	in vitro more efficiently than ADAMTS8, THBS1, or endostatin.	
	Synonyms: A disintegrin and metalloproteinase with thrombospondin motifs 1,ADAM-TS	
	1,ADAM-TS1,ADAMTS-1,3.4.24,METH-1,ADAMTS1,KIAA1346, METH1,	
	Full Gene Name: A disintegrin and metalloproteinase with thrombospondin motifs 1	
	Cellular Localisation: Secreted, extracellular space, extracellular matrix.	
Gene ID:	9510	
UniProt:	Q9UHI8	
Pathways:	SARS-CoV-2 Protein Interactome	
Application Details		
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well	

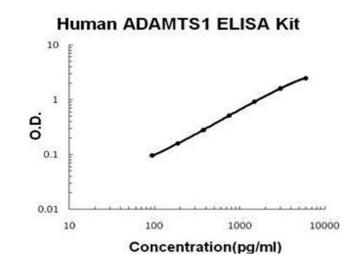
Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.

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Comment:	Sequence similarities: Contains 1 disintegrin domain.	
Plate:	Pre-coated	
Protocol:	human ADAMTS1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorben	
	assay technology. A monoclonal antibody from mouse specific for ADAMTS1 has been	
	precoated onto 96-well plates. Standards(NSO, F253-A734) and test samples are added to the	
	wells, a biotinylated detection polyclonal antibody from goat specific for ADAMTS1 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. HRI	
	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 ADAMTS1 amount of sample captured in plate.	
	density of yellow is proportional to the numar ADAMTST amount of sample captured in plate.	
Assay Procedure:	Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL,	
	187.5pg/mL, 93.7pg/m human ADAMTS1 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 ADAMTS1 standard solution and each sample be measured in duplicate.	
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 1208, Standard deviation: 42.28, CV(%): 3.5	
	Sample 2: n=16, Mean(pg/ml): 2741, Standard deviation: 117.9, CV(%): 4.3	
	 Sample 3: n=16, Mean(pg/ml): 4137, Standard deviation: 202.7, CV(%): 4.9, 	
	 Sample 1: n=24, Mean(pg/ml): 1850, Standard deviation: 98.05, CV(%): 5.3 	
	 Sample 2: n=24, Mean(pg/ml): 3035, Standard deviation: 176.03, CV(%): 5.8 Sample 3: n=24, Mean(pg/ml): 4726, Standard deviation: 302.5, CV(%): 6.4 	
	Sample 3. II-24, Mean(pg/III). 4720, Standard deviation. 302.3, 67(%). 0.4	
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	
Publications		
Product cited in:	Tang, Lee, Kim, Bishop, Rodgers: "siRNA-knockdown of ADAMTS-13 modulates endothelial ce	

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Images



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Image 1. Human ADAMTS1 PicoKine ELISA Kit standard curve

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