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ADAM8 ELISA Kit





Overview

Quantity:	96 tests
Target:	ADAM8
Binding Specificity:	AA 1-497
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ADAM8
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: M1-P497
Specificity:	NSO, M1-P497
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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:	ADAM8
Alternative Name:	ADAM8 (ADAM8 Products)
Background:	Protein Function: Possible involvement in extravasation of leukocytes.
	Background: A Disintegrin and metalloproteinase domain-containing protein 8 is an enzyme
	that in humans is encoded by the ADAM8 gene. ADAM8 is localized to chromosome 10q26.3.
	This gene encodes a member of the ADAM (a disintegrin and metalloproteinase domain)
	family. Members of the ADAM family, such as ADAM8, are cell surface proteases involved in
	remodeling of extracellular matrix, cell migration, and processing of membrane-bound signaling
	molecules. They are characterized by disintegrin and metalloprotease domains that confer
	adhesive properties and proteolytic activities, respectively. And the protein encoded by this
	gene may be involved in cell adhesion duringneurodegeneration.
	Synonyms: Disintegrin and metalloproteinase domain-containing protein 8,ADAM 8,3.4.24,Cell
	surface antigen MS2,CD156a,ADAM8,MS2,
	Full Gene Name: Disintegrin and metalloproteinase domain-containing protein 8
	Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	101
UniProt:	P78325
Pathways:	Activation of Innate immune Response, M Phase
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:	Tissue Specificity: Expressed on neutrophils and monocytes.
Plate:	Pre-coated
Protocol:	human ADAM8 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for ADAM8 has been precoated onto

96-well plates. Standards(NSO, M1-P497) and test samples are added to the wells, a		
biotinylated detection polyclonal antibody from goat specific for ADAM8 is added subsequently		
and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is		
added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB		
are used to visualize HRP enzymatic reaction. TMB is 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 ADAM8 amount of sample captured in plate.		

Assay Procedure:

Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human ADAM8 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human ADAM8 standard solution and each sample be measured in duplicate.

Assay Precision:

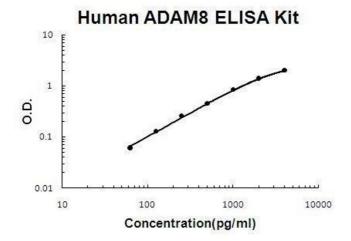
- Sample 1: n=16, Mean(ng/ml): 0.22, Standard deviation: 0.013, CV(%): 5.7
- Sample 2: n=16, Mean(ng/ml): 1.47, Standard deviation: 0.090, CV(%): 6.1
- Sample 3: n=16, Mean(ng/ml): 2.34, Standard deviation: 0.185, CV(%): 7.9,
- Sample 1: n=24, Mean(ng/ml): 0.27, Standard deviation: 0.018, CV(%): 6.8
- Sample 2: n=24, Mean(ng/ml): 1.56, Standard deviation: 0.115, CV(%): 7.4
- Sample 3: n=24, Mean(ng/ml): 2.58, Standard deviation: 0.214, CV(%): 8.3

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. Human ADAM8 PicoKine ELISA Kit standard curve