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Datasheet for ABIN1672812 SERPINA4 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	SERPINA4
Binding Specificity:	AA 21-427
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Kallistatin/Serpina4
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: Q21-P427
Specificity:	Expression system for standard: NSO
	Immunogen sequence: Q21-P427
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:	SERPINA4
Alternative Name:	SERPINA4 (SERPINA4 Products)
Background:	Protein Function: Inhibits human amidolytic and kininogenase activities of tissue kallikrein.
	Inhibition is achieved by formation of an equimolar, heat- and SDS-stable complex between the
	inhibitor and the enzyme, and generation of a small C-terminal fragment of the inhibitor due to
	cleavage at the reactive site by tissue kallikrein
	Background: Serpin peptidase inhibitor, clade A(alpha-1 antiproteinase, antitrypsin), member 4,
	also called Kallistatin, is a protein that in humans is encoded by the SERPINA4 gene. This gene
	is mapped to chromosome 14q32.13. Kallistatin is a serine proteinase inhibitor(serpin) and a
	heparin-binding protein. It is localized in vascular smooth muscle cells and endothelial cells of
	blood vessels, suggesting that it may be involved in the regulation of vascular function. It shows
	that kallistatin plays a role in neointima hyperplasia. The potential role of kallistatin was
	investigated in angiogenesis in vitro and in vivo, and presented results demonstrating a novel
	role of the protein in the inhibition of angiogenesis and tumor growth.
	Synonyms: Kallistatin,Kallikrein inhibitor,Peptidase inhibitor 4,PI-4,Serpin A4,SERPINA4,KST, PI4,
	Full Gene Name: Kallistatin
	Cellular Localisation: Secreted.
Gene ID:	5267
UniProt:	P29622

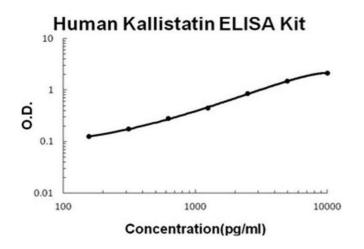
Application Details

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: Belongs to the serpin family. Tissue Specificity: Expressed by the liver and secreted in plasma.

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Application Details	
Plate:	Pre-coated
Protocol:	human Kallistatin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for Kallistatin has been
	precoated onto 96-well plates. Standards(NSO, Q21-P427) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Kallistatin 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 human Kallistatin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL human Kallistatin 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, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human Kallistatin standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 1521, Standard deviation: 77.6, CV(%): 5.1
	 Sample 2: n=16, Mean(pg/ml): 3786, Standard deviation: 170.4, CV(%): 4.5
	• Sample 3: n=16, Mean(pg/ml): 6866, Standard deviation: 425.7, CV(%): 6.2,
	 Sample 1: n=24, Mean(pg/ml): 1637, Standard deviation: 104.8, CV(%): 6.4 Sample 2: n=24, Mean(ng/ml): 4242, Standard deviation: 227, 6, OV(%): 5, 6
	 Sample 2: n=24, Mean(pg/ml): 4242, Standard deviation: 237.6, CV(%): 5.6 Sample 3: n=24, Mean(pg/ml): 7128, Standard deviation: 499, CV(%): 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

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ELISA

Image 1. Human Kallistatin/Serpina4 PicoKine ELISA Kit standard curve

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