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Datasheet for ABIN2859247 SERPINC1 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	SERPINC1
Binding Specificity:	AA 33-464
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20.000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Serpin C1/Antithrombin-III
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: H33-K464
Specificity:	NSO, H33-K464
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

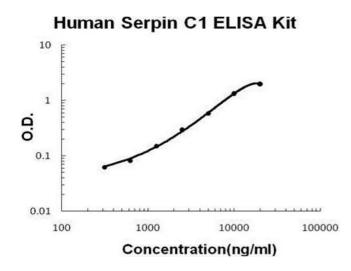
Target Details

SERPINC1
SERPINC1 (SERPINC1 Products)
Protein Function: Most important serine protease inhibitor in plasma that regulates the blood
coagulation cascade. AT-III inhibits thrombin, matriptase-3/TMPRSS7, as well as factors IXa, Xa
and XIa. Its inhibitory activity is greatly enhanced in the presence of heparin
Background: Antithrombin III is the most important inhibitor of thrombin and other coagulation
proteinases. It belongs to the serine proteinase inhibitor (serpin) superfamily of inhibitors and
structurally related proteins, which contain reactive centers that have evolved to attract and
entrap certain proteinases. Inherited antithrombin III deficiency (AT3D) is a risk factor for the
early development of venous thromboembolism (THPH7). Antithrombin III regulates clot
formation both by inhibiting thrombin activity directly and by interfering with earlier stages of
the clotting cascade. By in situ hybridization and quantitative analysis of DNA dosage in carriers
of chromosome 1 deletions, AT3 is mapped to 1q23-q25. The AT3 gene has 7 exons. It
contains 9 complete and 1 partial repetitive ALU sequence elements, which occur in the introns
of the gene at a higher frequency (about 22 $\%$ of the intron sequence) than in the genome as a
whole (about 5 %).
Synonyms: Antithrombin-III,ATIII,Serpin C1,SERPINC1,AT3,PR00309,
Full Gene Name: Antithrombin-III
Cellular Localisation: Secreted, extracellular space.
462
P01008
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.
Tissue Specificity: Found in plasma.

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Application Details		
Plate:	Pre-coated	
Protocol:	human Serpin C1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Serpin C1 has been precoated onto 96-well plates. Standards (NSO, H33-K464) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Serpin C1 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 Serpin C1 amount of sample captured in plate.	
Assay Procedure:	Aliquot 0.1 mL per well of the 20,000pg/mL, 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL human Serpin C1 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, plasma (heparin, EDTA, citrate) or urine to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human Serpin C1 standard solution and each sample is measured in duplicate.	
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 1.05, Standard deviation: 0.064, CV(%): 6.1 Sample 2: n=16, Mean(ng/ml): 3.42, Standard deviation: 0.194, CV(%): 5.7 Sample 3: n=16, Mean(ng/ml): 8.67, Standard deviation: 0.546, CV(%): 6.3, Sample 1: n=24, Mean(ng/ml): 1.32, Standard deviation: 0.088, CV(%): 6.7 Sample 2: n=24, Mean(ng/ml): 3.74, Standard deviation: 0.239, CV(%): 6.4 Sample 3: n=24, Mean(ng/ml): 8.23, Standard deviation: 0.543, CV(%): 6.6 	
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 Serpin C1/Antithrombin-III PicoKine ELISA Kit standard curve

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