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PI3 ELISA Kit





Overview

Quantity:	96 tests
Target:	PI3
Binding Specificity:	AA 23-117
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Elafin/PI3
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: A23-Q117
Specificity:	Expression system for standard: NSO Immunogen sequence: A23-Q117
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

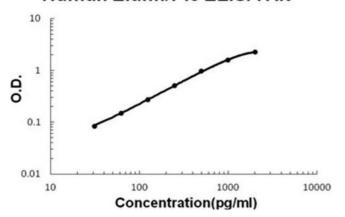
Product Details

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:	PI3
Alternative Name:	PI3 (PI3 Products)
Background:	Protein Function: Neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent
	elastase-mediated tissue proteolysis.
	Background: Elafin, also known as peptidase inhibitor 3 or skin-derived
	antileukoproteinase(SKALP) is a protein that in humans is encoded by the PI3 gene. It is
	mapped to 20q13.12. This gene encodes an elastase-specific inhibitor that functions as an
	antimicrobial peptide against Gram-positive and Gram-negative bacteria. The protein contains
	WAP-type four-disulfide core(WFDC) domain, and is thus a member of the WFDC domain
	family. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters:
	centromeric and telomeric. This gene belongs to the centromeric cluster. Expression of this
	gene is upgulated by bacterial lipopolysaccharides and cytokines. This gene is the neutrophil
	and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue
	proteolysis.
	Synonyms: Elafin, Elastase-specific inhibitor, ESI, Peptidase inhibitor 3, PI-3, Protease inhibitor
	WAP3,Skin-derived antileukoproteinase,SKALP,WAP four-disulfide core domain protein
	14,PI3,WAP3, WFDC14,
	Full Gene Name: Elafin
	Cellular Localisation: Secreted.
Gene ID:	5266
UniProt:	P19957
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.
Plate:	Pre-coated

Application Details

Protocol:	human Elafin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for Elafin has been precoated
	onto 96-well plates. Standards(NSO, A23-Q117) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for Elafin 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 Elafin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL human Elafin 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 and plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human Elafin standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 225, Standard deviation: 12.6, CV(%): 5.6
	 Sample 2: n=16, Mean(pg/ml): 657, Standard deviation: 32.2, CV(%): 4.9
	Sample 3: n=16, Mean(pg/ml): 1334, Standard deviation: 57.36, CV(%): 4.3,
	• Sample 1: n=24, Mean(pg/ml): 230, Standard deviation: 17.02, CV(%): 7.4
	• Sample 2: n=24, Mean(pg/ml): 645, Standard deviation: 39.99, CV(%): 6.2
	 Sample 3: n=24, Mean(pg/ml): 1742, Standard deviation: 113.23, CV(%): 6.5
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

Human Elafin/PI3 ELISA Kit



ELISA

Image 1. Human Elafin/PI3 PicoKine ELISA Kit standard curve