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Datasheet for ABIN921102 Prostate Specific Antigen ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	Prostate Specific Antigen (PSA)
Binding Specificity:	AA 18-261
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Kallikrein 3
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: A18-P261
Specificity:	Expression system for standard: NSO Immunogen sequence: A18-P261
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

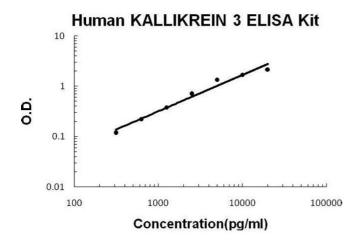
Target:	Prostate Specific Antigen (PSA)
Alternative Name:	KLK3 (PSA Products)
Background:	Protein Function: Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal
	coagulum.
	Background: Prostate-specific antigen(PSA), also known as kallikrein III, seminin,
	semenogelase, gamma-seminoprotein and P-30 antigen) is a 34 kD glycoprotein manufacture
	almost exclusively by the prostate gland, PSA is produced for the ejaculate where it liquifies the
	semen in the seminal coagulum and allows sperm to swim freely.1It is also believed to be
	instrumental in dissolving the cervical mucous cap, allowing the entry of sperm.2It is a serine
	protease enzyme, the gene of which is located on the nineteenth chromosome(19q13).3
	Synonyms: Prostate-specific antigen,PSA,3.4.21.77,Gamma-seminoprotein,Seminin,Kallikrein-
	3,P-30 antigen,Semenogelase,KLK3,APS,
	Full Gene Name: Prostate-specific antigen
	Cellular Localisation: Secreted.
Gene ID:	354
UniProt:	P07288
Pathways:	Complement System
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 peptidase S1 family. Kallikrein subfamily.
Plate:	Pre-coated
Protocol:	human Kallikrein 3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorben
	assay technology. A monoclonal antibody from mouse specific for Kallikrein 3 has been

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Application Details

	precoated onto 96-well plates. Standards(NSO, A18-P261) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Kallikrein 3 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 Kallikrein 3 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL,
	1250pg/mL, 625pg/mL, 312pg/mL human Kallikrein 3 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 Kallikrein 3 standard solution and each sample be measured
	in duplicate.
Assay Precision:	Sample 1: n=16, Mean(ng/ml): 1.8, Standard deviation: 0.108, CV(%): 6
	 Sample 2: n=16, Mean(ng/ml): 6.7, Standard deviation: 0.422, CV(%): 6.3
	 Sample 3: n=16, Mean(ng/ml): 12.7, Standard deviation: 0.686, CV(%): 5.4,
	 Sample 1: n=24, Mean(ng/ml): 2.6, Standard deviation: 0.203, CV(%): 7.8
	 Sample 2: n=24, Mean(ng/ml): 8.4, Standard deviation: 0.58, CV(%): 6.9
	• Sample 3: n=24, Mean(ng/ml): 14.7, Standard deviation: 0.853, CV(%): 5.8
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 Kallikrein 3 PicoKine ELISA Kit standard curve

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