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# Datasheet for ABIN2859314 Kallikrein 11 ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	Kallikrein 11 (KLK11)
Binding Specificity:	AA 19-250
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human KLK11
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: E19-N250
Specificity:	NSO, E19-N250
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product D	etails
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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

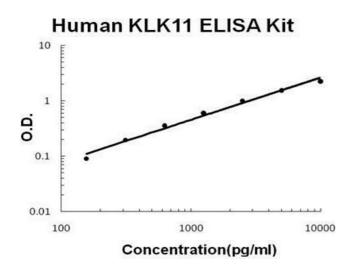
Target:	Kallikrein 11 (KLK11)
Alternative Name:	KLK11 (KLK11 Products)
Background:	Protein Function: Possible multifunctional protease. Efficiently cleaves 'bz-Phe-Arg-4-
	methylcoumaryl-7-amide', a kallikrein substrate, and weakly cleaves other substrates for
	kallikrein and trypsin. Cleaves synthetic peptides after arginine but not lysine residues
	Background: Kallikrein-11 is a protein that in humans is encoded by the KLK11 gene. Kallikreins
	are a subgroup of serine proteases having diverse physiological functions. Growing evidence
	suggests that many kallikreins are implicated in carcinogenesis and some have potential as
	novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily
	members located in a cluster on chromosome 19. Alternate splicing of this gene results in two
	transcript variants encoding two different isoforms which are differentially expressed.
	Synonyms: Kallikrein-11,hK11,3.4.21,Hippostasin,Serine protease 20,Trypsin-like
	protease,Kallikrein-11 inactive chain 1,Kallikrein-11 inactive chain 2,KLK11,PRSS20,
	TLSP,UNQ649/PR01279,
	Full Gene Name: Kallikrein-11
	Cellular Localisation: Isoform 1: Secreted.
Gene ID:	11012
UniProt:	Q9UBX7
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:	Tissue Specificity: Expressed in brain, skin and prostate. Isoform 1 is expressed preferentially ir
	brain. Isoform 2 is expressed in prostate. Present in seminal plasma at concentrations ranging

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### Application Details

	from 2 to 37 microg/mL (at protein level)
Plate:	Pre-coated
Protocol:	human KLK11 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for KLK11 has been precoated
	onto 96-well plates. Standards (NSO,E19-N250) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for KLK11 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 KLK11 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL human KLK11 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, cell lysates, tissue homogenates,
	serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for
	details. It is recommended that each human KLK11 standard solution and each sample be
	measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 1399, Standard deviation: 68.55, CV(%): 4.9
	• Sample 2: n=16, Mean(pg/ml): 3520, Standard deviation: 204.16, CV(%): 5.8
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 6635, Standard deviation: 364.92, CV(%): 5.5,</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 1575, Standard deviation: 92.92, CV(%): 5.9</li> <li>Sample 2: n=24, Mean(pg/ml): 4236, Standard deviation: 279.57, CV(%): 6.6</li> </ul>
	<ul> <li>Sample 3: n=24, Mean(pg/ml): 6751, Standard deviation: 398.30, CV(%): 5.9</li> </ul>
Destriction	
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 KLK11 PicoKine ELISA Kit standard curve

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