

Datasheet for ABIN2859316

Kallikrein 13 ELISA Kit

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1 Image

Overview

Quantity:	96 tests
Target:	Kallikrein 13 (KLK13)
Binding Specificity:	AA 17-277
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 KLK13
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: G17-Q277
Specificity:	NSO, G17-Q277
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:	Kallikrein 13 (KLK13)
Alternative Name:	KLK13 (KLK13 Products)
Background:	<p>Background: Kallikrein-13 is a protein that in humans is encoded by the KLK13 gene. It belongs to the kallikrein subgroup of serine proteases, which have diverse physiologic functions in many tissues. By genomic sequence analysis, KLK13 gene is mapped in a 300-kb region on chromosome 19q13.3-q13.4. It has been shown that recombinant hK13 produced in yeast can cleave synthetic peptides after the arginine residue and some extracellular matrix components. However, its exact physiological substrates and functions remain obscure. Despite the lack of knowledge on the physiological function of hK13, several studies have demonstrated that hK13 is implicated with cancer of the breast and ovary and it can serve as a favorable prognostic biomarker for these malignancies.</p> <p>Synonyms: Kallikrein-13,3.4.21.-,Kallikrein-like protein 4,KLK-L4,KLK13,KLKL4,</p> <p>Full Gene Name: Kallikrein-13</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	26085
UniProt:	Q9UKR3
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 prostate, breast, testis and salivary gland.
Plate:	Pre-coated
Protocol:	human KLK13 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for KLK13 has been precoated

Application Details

onto 96-well plates. Standards (NS0,G17-Q277) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for KLK13 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 KLK13 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 KLK13 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 KLK13 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 1661, Standard deviation: 83.05, CV(%): 5.0
- Sample 2: n=16, Mean(pg/ml): 3572, Standard deviation: 196.46, CV(%): 5.5
- Sample 3: n=16, Mean(pg/ml): 6985, Standard deviation: 405.13, CV(%): 5.8,
- Sample 1: n=24, Mean(pg/ml): 1369, Standard deviation: 71.18, CV(%): 5.2
- Sample 2: n=24, Mean(pg/ml): 4425, Standard deviation: 269.92, CV(%): 6.1
- Sample 3: n=24, Mean(pg/ml): 6594, Standard deviation: 422.01, CV(%): 6.4

Restrictions: For Research Use only

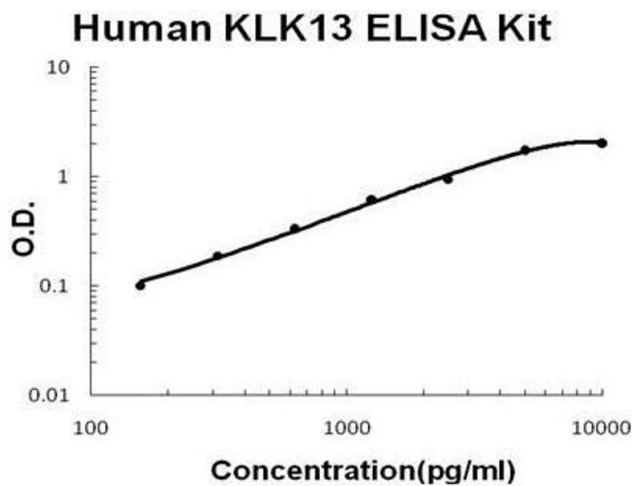
Handling

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



ELISA

Image 1. Human KLK13 PicoKine ELISA Kit standard curve