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Datasheet for ABIN2859315
Kallikrein 12 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	Kallikrein 12 (KLK12)
Binding Specificity:	AA 18-248
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 KLK12
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: A18-N248
Specificity:	NSO, A18-N248
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 12 (KLK12)

Alternative Name: KLK12 ([KLK12 Products](#))

Background: Background: Kallikrein-12 is a protein that in humans is encoded by the KLK12 gene. It belongs to the kallikrein subgroup of serine proteases, which have diverse physiologic functions in many tissues. KLK12 is expressed primarily in salivary gland, stomach, uterus, trachea, prostate, thymus, lung, colon, brain, breast, and thyroid gland and at lower levels in testis, pancreas, small intestine, and spinal cord. The expression of KLK12 is downregulated at the mRNA level in breast cancer tissues and is upregulated by steroid hormones in breast and prostate cancer cell lines.

Synonyms: Kallikrein-12,3.4.21.-,Kallikrein-like protein 5,KLK-L5,KLK12,KLKL5,UNQ669/PRO1303,

Full Gene Name: Kallikrein-12

Cellular Localisation: Secreted.

Gene ID: 43849

UniProt: [Q9UKR0](#)

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.

Plate: Pre-coated

Protocol: human KLK12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for KLK12 has been precoated onto 96-well plates. Standards (NSO, A18-N248) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for KLK12 is added subsequently

Application Details

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 KLK12 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 KLK12 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 KLK12 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 1409, Standard deviation: 73.26, CV(%): 5.2
- Sample 2: n=16, Mean(pg/ml): 3882, Standard deviation: 213.51, CV(%): 5.5
- Sample 3: n=16, Mean(pg/ml): 6756, Standard deviation: 405.36, CV(%): 6.0,
- Sample 1: n=24, Mean(pg/ml): 1523, Standard deviation: 89.85, CV(%): 5.9
- Sample 2: n=24, Mean(pg/ml): 4129, Standard deviation: 251.86, CV(%): 6.1
- Sample 3: n=24, Mean(pg/ml): 6526, Standard deviation: 443.76, CV(%): 6.8

Restrictions: For Research Use only

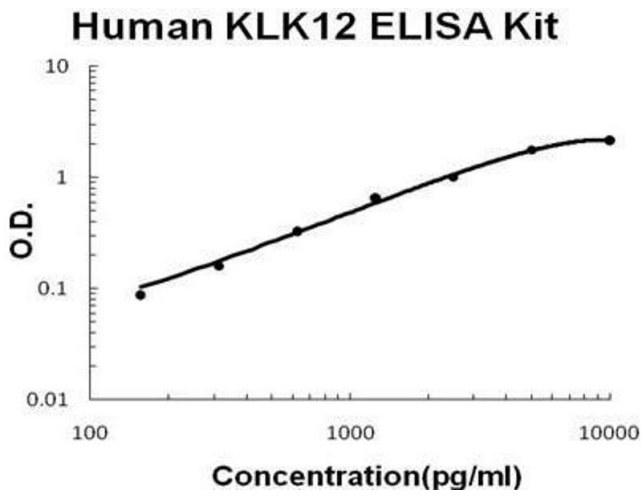
Handling

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



ELISA

Image 1. Human KLK12 PicoKine ELISA Kit standard curve