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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 |
|-----------|--------|
|-----------|--------|

| 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

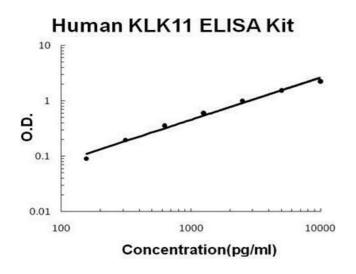
| Target: | Kallikrein 11 (KLK11) |
|---------------------|---|
| Alternative Name: | KLK11 (KLK11 Products) |
| Background: | Protein Function: Possible multifunctional protease. Efficiently cleaves 'bz-Phe-Arg-4- |
| | methylcoumaryl-7-amide', a kallikrein substrate, and weakly cleaves other substrates 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 |
| | Sample 3: n=16, Mean(pg/ml): 6635, Standard deviation: 364.92, CV(%): 5.5, |
| | Sample 1: n=24, Mean(pg/ml): 1575, Standard deviation: 92.92, CV(%): 5.9 Sample 2: n=24, Mean(pg/ml): 4236, Standard deviation: 279.57, CV(%): 6.6 |
| | Sample 3: n=24, Mean(pg/ml): 6751, Standard deviation: 398.30, CV(%): 5.9 |
| 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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