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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

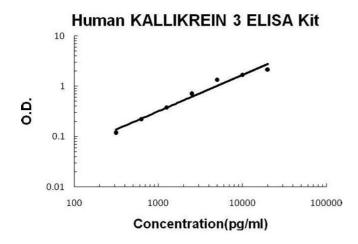
| Target: | Prostate Specific Antigen (PSA) |
|---------------------|--|
| Alternative Name: | KLK3 (PSA Products) |
| Background: | Protein Function: Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal |
| | coagulum. |
| | Background: Prostate-specific antigen(PSA), also known 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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