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Datasheet for ABIN1889376

MSMB ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	MSMB
Binding Specificity:	AA 21-114
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human PSP94
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: S21-I114
Specificity:	Expression system for standard: E.coli Immunogen sequence: S21-I114
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: MSMB

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

Background: Background: Beta-microseminoprotein, also known as MSMB or PSP94, is a protein that in humans is encoded by the MSMB gene. It is a member of the immunoglobulin binding factor family. This gene is mapped to 10q11.23. It is synthesized by the epithelial cells of the prostate gland and secreted into the seminal plasma. The expression of the encoded protein is found to be decreased in prostate cancer. But transcripts of identical size were found in prostate, respiratory(tracheal, bronchial, and lung) tissues, and the mucosa of the gastric antrum. Thus, the protein may have functions other than those related to male reproduction. This protein has inhibin-like activity. It may have a role as an autocrine paracrine factor in uterine, breast and other female reproductive tissues.

Synonyms: Beta-microseminoprotein,Immunoglobulin-binding factor,IGBF,PN44,Prostate secreted seminal plasma protein,Prostate secretory protein of 94 amino acids,PSP-94,PSP94,Seminal plasma beta-inhibin,MSMB,PRSP,

Full Gene Name: Beta-microseminoprotein

Cellular Localisation: Secreted. Sperm surface.

Gene ID: 4477

UniProt: [P08118](#)

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.

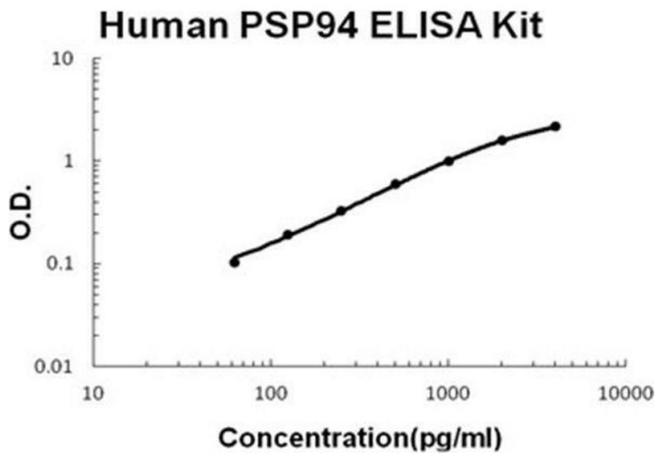
Comment: Sequence similarities: Belongs to the beta-microseminoprotein family.
Tissue Specificity: Strongly expressed in prostate, liver, kidney, breast and penis. Also expressed in pancreas, esophagus, stomach, deodenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney and bladder. .

Application Details

Plate:	Pre-coated
Protocol:	human PSP94 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for PSP94 has been precoated onto 96-well plates. Standards(E.coli, S21-I114) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for PSP94 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 PSP94 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human PSP94 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 PSP94 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 765, Standard deviation: 36.72, CV(%): 4.8• Sample 2: n=16, Mean(pg/ml): 1533, Standard deviation: 78.2, CV(%): 5.1• Sample 3: n=16, Mean(pg/ml): 2897, Standard deviation: 182.5, CV(%): 6.3,• Sample 1: n=24, Mean(pg/ml): 890, Standard deviation: 56.96, CV(%): 6.4• Sample 2: n=24, Mean(pg/ml): 1915, Standard deviation: 137.88, CV(%): 7.2• Sample 3: n=24, Mean(pg/ml): 3143, Standard deviation: 238.9, CV(%): 7.6
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 PSP94 PicoKine ELISA Kit standard curve