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## **Prostate Specific Antigen ELISA Kit**



#### Overview

Quantity:	1 kit
Target:	Prostate Specific Antigen (PSA)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312 pg/mL - 20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

### **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: APS, Gamma seminoprotein, Gamma-seminoprotein, hK3, Kallikrein 3, Kallikrein

Synonyms: APS, Gamma seminoprotein, Gamma-seminoprotein, hK3, Kallikrein 3, Kallikrein related peptidase 3, Kallikrein-3, KLK 3, KLK2A1, KLK3, Klk3, KLK3\_HUMAN, P 30 antigen, P-30 antigen, P30 antigen, Prostate Specific Antigen, Prostate-specific antigen, Psa, Semenogelase, Seminin

Background: Prostate-specific antigen(PSA), also known as kallikrein III, seminin, semenogelase, gamma-seminoprotein and P-30 antigen) is a 34 kD glycoprotein manufactured 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

Gene Name: KLK3

Production: Natural and recombinant human Kallikrein 3. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A18-P261

#### **Target Details**

Target:	Prostate Specific Antigen (PSA)
Alternative Name:	Kallikrein 3 (PSA Products)
Gene ID:	354
NCBI Accession:	NP_001025218
UniProt:	P07288
Pathways:	Complement System

#### **Application Details**

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Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. 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. It is recommended that each human Kallikrein 3 standard solution and each sample be measured in duplicate. Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 312pg/mL-20000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

#### Handling

RT,4 °C,-20 °C Storage:

#### Handling

Storage Comment:

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.