

Human Kallikrein 3 / PSA ELISA Kit

Kallikrein 3 / PSA Human ELISA Kit

CATALOG # AAA58998	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

Kallikrein 3 / PSA; Kallikrein 3 / PSA Human ELISA Kit; Human Kallikrein 3 / PSA; Kallikrein 3 / PSA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Human serum, body fluids, tissue lysates or cell culture supernatants
Assay Type	Quantitative Sandwich
Detection Range	312 pg/ml-20,000 pg/ml
Sensitivity	< 10 pg/ml
Applicable Applications for Kallikrein 3 / PSA elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a Human Kallikrein 3 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	312	625	1250	2500	5000	10,000	20,000
Y	OD450	0.039	0.082	0.108	0.146	0.279	0.514	0.977	2.083

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Kallikrein 3 / PSA elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Kallikrein 3 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Kallikrein 3 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 Kallikrein 3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Kallikrein 3 can be calculated.

Background/Introduction: Prostate-specific antigen (PSA), also known as gamma-seminoprotein or kallikrein-3 (KLK3), is a single-chain glycoprotein with a molecular mass of about 33 kD that may function normally in the liquefaction of seminal coagulum. The PSA gene spans about 6 kb and contains 5 exons. It is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland. PSA is produced for the ejaculate, where it liquefies semen in the seminal coagulum and allows sperm to swim freely. It is also believed to be instrumental in dissolving cervical mucus, allowing the entry of sperm into the uterus.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

