

Datasheet for ABIN1112732 Prostate Specific Antigen ELISA Kit



Overview

Quantity:	96 tests
Target:	Prostate Specific Antigen (PSA)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 10 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Human Kallikrein 3 antibody 2. Lyophilized Human Kallikrein 3 standards: 2 tubes (20ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Human Kallikrein 3 antibody (Concentrated): 130 μl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable pipette tips 4. Automated plate washer 5. ELISA shaker 6. 1.5ml of Eppendorf tubes 7. Plate cover 8. Absorbent filter papers 9. Plastic or glass container with volume of above 1L

Target Details

Target:

Prostate Specific Antigen (PSA)

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Alternative Name:	Kallikrein 3 / PSA (PSA Products)
Background:	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.
Pathways:	Complement System
Application Details	
Comment:	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 - 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 - visualize HRP enzymatic reaction. TMB was catalyzed by HRP - produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional - the Kallikrein 3 amount of sample captured in plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of Kallikrein 3 can be calculated.
Plate:	Pre-coated
Reagent Preparation:	 Before the experiment, centrifuge each kit component for several minutes to bring down all reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid cross contamination. 5. Do not use the expired components and the components from different batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working solution and TMB substrate for at least 30 min at room temperature (37°C) before adding to wells. The TMB substrate (Kit Component 8) is colorless and transparent before use, if not, please contact us for replacement.
	Preparation of sample and reagents 1. Sample Isolate the test samples soon after collecting,

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Application Details

	then, analyze immediately (within 2 hours). Or aliquot and store at -20 °C for long term. Avoid
	multiple freeze-thaw cycles.
	Body fluids, tissue lysates and cell culture supernatants: Centrifuge to remove precipitate,
	analyze immediately or aliquot and store at -20 °C .
	Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately
	1000 × g for 15 min. Analyze the serum immediately or aliquot and store at -20 $^\circ$ C . Note: 1.
	Coagulate blood samples completely, then, centrifuge, and avoid hemolysis and particle. 2.
	NaN3 can not be used as test sample preservative, since it is the inhibitor for HRP.
Restrictions:	For Research Use only
Handling	
Preservative:	Sodium azide, Thimerosal (Merthiolate)