

Prostate Specific Antigen ELISA Kit | PSA elisa kit

Prostate Specific Antigen (PSA)

CATALOG #
AAA77872

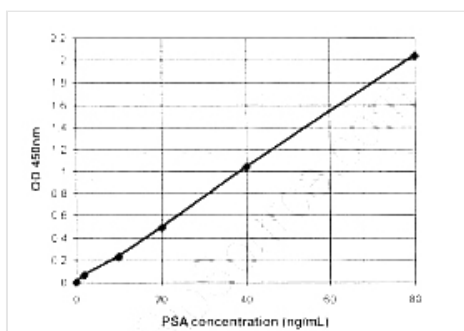
PRODUCT SYNONYMS

Prostate Specific Antigen; Prostate Specific Antigen (PSA); PSA elisa kit

PRODUCT SPECIFICATIONS

Sequence Length	261
Assay Type	Quantitative Sandwich

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PSA elisa kit

Intended Uses: This Human PSA Kit ELISA Kit is to be used for the in vitro quantitative determination of human PSA concentrations in serum and cell culture samples. This kit is intended for LABORATORY RESEARCH USE ONLY.

Principle of the Assay: This PSA enzyme linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific for PSA. Standards or samples are then added to the microtiter plate wells and PSA, if present, will bind to the antibody pre-coated on the wells. In order to quantify the amount of PSA present in the sample, a standardized preparation of horseradish peroxidase (HRP) conjugated monoclonal antibody, specific for PSA are added to each well to "sandwich" the PSA immobilized on the plate. The microtiter plate then undergoes incubation, followed by thorough washing of the wells to remove all unbound components. Next, a TMB (3,3',5,5' tetramethylbenzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain PSA and enzyme-conjugated antibody will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450nm +/- 2nm. In order to measure the concentration of PSA in the sample, this Human PSA ELISA Kit includes a set of calibration standards (6 standards). The calibration standards are assayed at the same time as the samples allowing the operator to produce a standard curve of Optical Density (O.D.) versus PSA concentration (ng/mL). The concentration of PSA in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Product Categories/Family for PSA elisa kit

ELISA Kits for Human Tumor Markers

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502173
NCBI GeneID	354
NCBI Accession #	NP_001639.1
NCBI GenBank Nucleotide #	NM_001648.2
Molecular Weight	25,116 Da
NCBI Official Full Name	prostate-specific antigen isoform 1 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 3
NCBI Official Symbol	KLK3
NCBI Official Synonym Symbols	APS; PSA; hK3; KLK2A1
NCBI Protein Information	prostate-specific antigen; P-30 antigen; gamma-seminoprotein; kallikrein-3; prostate specific antigen; semenogelase; seminin
UniProt Protein Name	Prostate-specific antigen
UniProt Gene Name	KLK3
UniProt Entry Name	KLK3_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/psa-elisa-kits/prostate-specific-antigen/77872>