

Human PSA ELISA Kit | PSA elisa kit

PSA (Human) OmniKine ELISA Kit

CATALOG #
AAA315815

REACTIVITY
Human

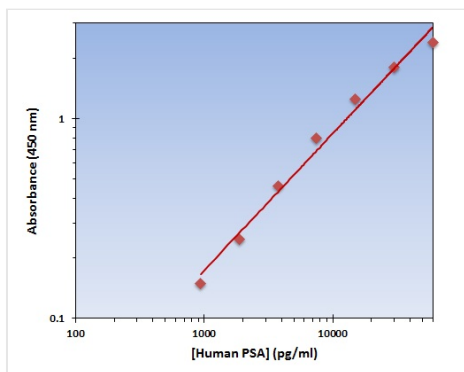
PRODUCT SYNONYMS

PSA; PSA (Human) OmniKine ELISA Kit; Prostate-specific antigen; Gamma-seminoprotein; Semin; P-30 antigen; Semenogelase; PSA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The OmniKine™ Human PSA ELISA is capable of recognizing both recombinant and naturally produced Human PSA proteins. The antigens listed below were tested at 600 ng/ml and did not exhibit significant cross reactivity or interference.
Form/Format	12 x 8-Well Microstrips
Sequence Length	238
Assay Type	Quantitative Sandwich
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Application Data

The OmniKine Human PSA ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human PSA proteins within the range of 938-60000 pg/ml.

ADDITIONAL INFORMATION

Related Product Information for PSA elisa kit	Principle of the Assay: The OmniKine™ Human PSA ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human PSA concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human PSA while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of nonspecific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration. Background/Introduction: Kallikrein 3/PSA (prostate specific antigen) hydrolyzes semenogelin- 1, leading to the liquefaction of the seminal coagulum. Activity is strongly inhibited by Zn²⁺. PSA is 100 times more abundant in semen than in serum. This inhibition is relieved by exposure to semenogelins, which are avid zinc binders.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	71834853
NCBI GeneID	354
NCBI Accession #	NP_001025218.1
NCBI GenBank Nucleotide #	NM_001030047.1
UniProt Accession #	P07288; Q15096; Q16272; Q86TG8; Q8IXI4; C9JXH3; G3V0H4; G3XAE3
Molecular Weight	25,116 Da
NCBI Official Full Name	prostate-specific antigen isoform 3 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
UniProt Protein Name	Prostate-specific antigen
UniProt Gene Name	KLK3
UniProt Synonym Gene Names	APS; PSA; Semin

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/human-elisa-kits/psa/315815>