Prostate Specific Antigen (PSA) ELISA Kit for Rabbit

PRODUCT OVERVIEW

Product Name	Prostate Specific Antigen (PSA), ELISA Kit
Full Product Name	Rabbit Prostate Specific Antigen ELISA Kit
Product Gene Name	PSA elisa kit
Species Reactivity	Rabbit
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	28,741 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (51358171..51364020). Location: 19q13.41
OMIM	176820
3D Structure	ModBase 3D Structure for P07288
Related Product Information for PSA elisa kit	MBS023659 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Prostate Specific Antigen (PSA) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PSA. The ELISA analytical biochemical technique of the MBS023659 kit is based on PSA antibody-PSA antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PSA antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PSA. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PSA elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSA. It may not necessarily be applicable to this product.

NCBI GI #	4502173
NCBI GeneID	354
NCBI Accession #	NP_001639.1
UniProt Primary Accession #	P07288
UniProt Secondary Accession #	Q15096; Q16272; Q86TG8; Q8IXI4; C9JXH3; G3V0H4; G3XAE3
UniProt Related Accession #	P07288
GenBank Nucleotide #	NM_001648.2
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
UniProt Protein Name	Prostate-specific antigen

UniProt Synonym Protein Names	Gamma-seminoprotein; Seminin; Kallikrein-3; P-30 antigen; Semenogelase
Protein Family	Prostate-specific antigen
UniProt Gene Name	KLK3
UniProt Synonym Gene Names	APS; PSA; Seminin
UniProt Entry Name	KLK3_HUMAN
NCBI Protein Information	prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen
NCBI Summary for PSA	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for PSA	PSA: Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum. Forms heterodimer with SERPINA5. Inhibited by SERPINA5. Activity is strongly inhibited by Zn2+, 100 times more abundant in semen than in serum. This inhibition is relieved by exposure to semenogelins, which are avid zinc binders. Belongs to the peptidase S1 family. Kallikrein subfamily. Protein type: Secreted, signal peptide; Secreted; EC 3.4.21.77; Protease Chromosomal Location of Human Ortholog: 19q13.41 Cellular Component: extracellular region; nucleus Molecular Function: protein binding; serine-type peptidase activity; serine-type endopeptidase activity Biological Process: negative regulation of angiogenesis; cellular protein metabolic process; proteolysis
Research Articles on PSA	**1.** PSA levels are associated with a G/A polymorphism only in healthy controls; the transition, however, is not associated with PSA levels of benign prostatic hypertrophy and cancer patients, nor is it a risk factor.
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