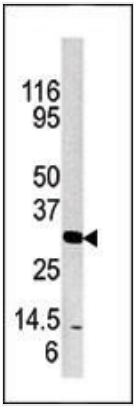
Prostate Specific Antigen (PSA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Prostate Specific Antigen (PSA), Polyclonal Antibody
Full Product Name	Prostate Specific Antigen, CT (PSA, APS, Kallikrein-3, KLK3, hK3, Kallikrein III, Kallikrein-related Peptidase 3, KLK2A1, P-30 Antigen, Seminin, Semenogelase, gamma-Seminoprotein) (MaxLight 750)
Product Gene Name	anti-PSA antibody
Product Synonym Names	EC=3.4.21.77; Gamma-Seminoprotein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human KLK3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	28.8 kDa (262aa)
OMIM	176820
3D Structure	ModBase 3D Structure for P07288
Immunogen	Synthetic peptide selected from the C-terminal region of human KLK3 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-PSA antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-PSA antibody	Western Blot (WB), FLISA
Application Notes for anti-PSA antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PSA antibody	MBS6494819 is an antibody targeting PSA. Also known as Prostate Specific Antigen, CT (PSA, APS, Kallikrein-3, KLK3, hK3, Kallikrein III, Kallikrein-related Peptidase 3, KLK2A1, P-30 Antigen, Seminin, Semenogelase, gamma-Seminoprotein) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PSA antibody	1. Binnie, M.C., et al., Prostate 63(4):309-315 (2005). 2. Habib, F.K., et al., Int. J. Cancer 114(2):190-194 (2005). 3. Laidler, P., et al., Arch. Biochem. Biophys. 435(1):1-14 (2005). 4. Dallas, S.L., et al., J. Cell. Physiol. 202(2):361-370 (2005). 5. Olsson, A.Y., et al., Genomics 84(1):147-156 (2004).
Other Notes	Small volumes of anti-PSA antibody 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.



Western Blot (WB) of anti-PSA antibody
Western blot analysis of anti-KLK3 Pab in mouse brain tissue lysate.KLK3(arrow) was detected using the purified Pab.

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
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
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; Protease; EC 3.4.21.77; Secreted, signal peptide 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.** the concentrations of insulin, IGF-1, IGFBP-3 and their association with prostate size in patients with BPH
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