

Rabbit anti-Human Prostate Specific Antigen/KLK3 Polyclonal Antibody | anti-KLK3 antibody

Anti-Prostate Specific Antigen/KLK3 Antibody

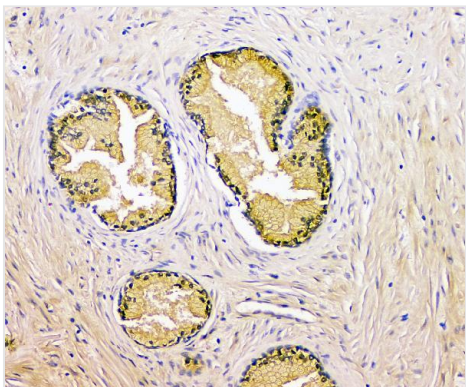
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125608	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

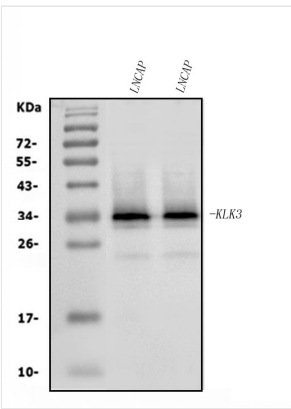
Prostate Specific Antigen/KLK3; Polyclonal Antibody; Anti-Prostate Specific Antigen/KLK3 Antibody; KLK3; APS; Prostate-specific antigen; PSA; Gamma-seminoprotein; Semin; Kallikrein-3; P-30 antigen; Semenogelase; kallikrein related peptidase 3; anti-KLK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Prostate Specific Antigen/KLK3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-KLK3 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Prostate Specific Antigen/KLK3 recombinant protein (Position: A64-D255).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of Prostate Specific Antigen/KLK3 using anti-Prostate Specific Antigen/KLK3 antibody (AAA125608).Prostate Specific Antigen/KLK3 was detected in paraffin-embedded section of human prostatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Prostate Specific Antigen/KLK3 Antibody (AAA125608) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of Prostate Specific Antigen/KLK3 using anti-Prostate Specific Antigen/KLK3 antibody (AAA125608).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human LNCAP whole cell lysatesLane 2: human LNCAP whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Prostate Specific Antigen/KLK3 antigen affinity purified polyclonal antibody (Catalog # AAA125608) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Prostate Specific Antigen/KLK3 at approximately 34KD. The expected band size for Prostate Specific Antigen/KLK3 is at 34KD.

ADDITIONAL INFORMATION

Related Product Information for anti-KLK3 antibody	Prostate-specific antigen (PSA), also known as gamma-seminoprotein or kallikrein-3 (KLK3), is a glycoprotein enzyme encoded in humans by the KLK3 gene. KLK3 is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland. This gene is mapped to 19q13. 33. KLK3 is present in small quantities in the serum of men with healthy prostates, but is often elevated in the presence of prostate cancer or other prostate disorders. KLK3 is produced for the ejaculate where it liquifies the semen in the seminal coagulum and allows sperm to swim freely. It is also believed to be instrumental in dissolving the cervical mucous cap, allowing the entry of sperm. It is not a unique indicator of prostate cancer, but may also detect prostatitis or benign prostatic hyperplasia.
References	1. Balk SP, Ko YJ, Bubley GJ (January 2003). "Biology of prostate-specific antigen". J. Clin. Oncol. 21 (2): 383-91. 2. Catalona, W. J.; Richie, J. P.; Ahmann, F. R.; Hudson, M. A.; Scardino, P. T.; Flanigan, R. C.; Dekernion, J. B.; Ratliff, T. L.; Kavoussi, L. R.; Dalkin, B. L. (1994). "Comparison of digital rectal examination and serum prostate specific antigen in the early detection of prostate cancer: Results of a multicenter clinical trial of 6,630 men". The Journal of urology 151 (5): 1283-1290. 3. Lilja H (November 2003). "Biology of prostate-specific antigen". Urology 62 (5 Suppl 1): 27-33.

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; C9JXH3; G3V0H4; G3XAE3
Molecular Weight	28,741 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; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen
UniProt Protein Name	Prostate-specific antigen
UniProt Gene Name	KLK3
UniProt Synonym Gene Names	APS; PSA; Semin
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/polyclonal/prostate-specific-antigen-klk3-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/125608>