

# Anti-Prostate Specific Antigen Rabbit pAb

Purified Rabbit Polyclonal Antibody

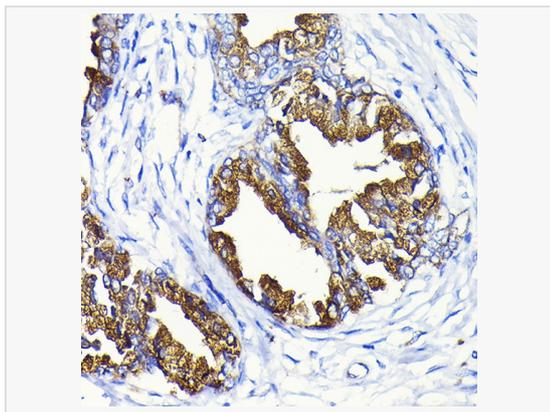
Catalog # P105037

## Product Information

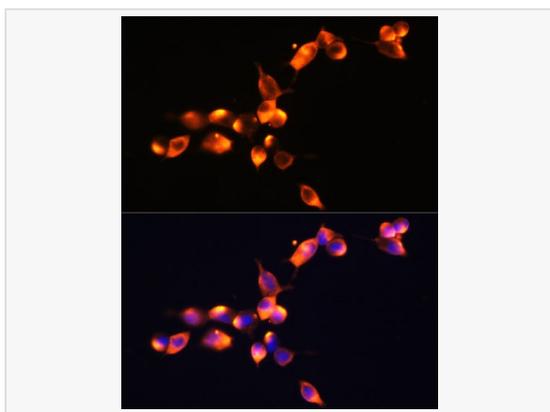
Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, IP, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:500~1:1,000; IHC-P 1:50~1:200; IF 1:50~1:200; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 30-261 of human KLK3 (NP_001639.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Prostate Specific Antigen Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

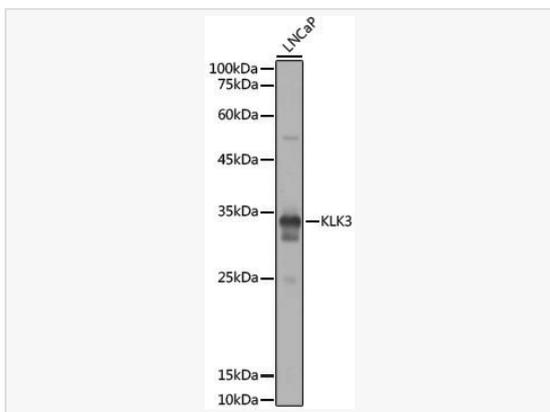
Synonyms	APS; PSA; hK3; KLK2A1; KLK3.
Calculated MW	Calculated MW: 29 kDa; Observed MW: 34 kDa
Uniprot ID	P07288
Gene ID	354
Background	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. It encodes a single-chain glycoprotein, a protease which is synthesized in the epithelial cells of the prostate gland, and is 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. The 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.



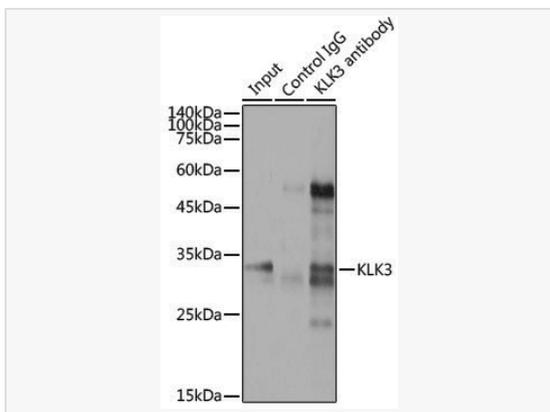
Immunohistochemistry analysis of paraffin-embedded Human prostate cancer using KLK3 Rabbit pAb (P105037) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of LNCaP cells using KLK3 Rabbit pAb (P105037) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Western blot analysis of lysates from LNCaP cells, using KLK3 Rabbit pAb (P105037) at 1:1,000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Kit.  
 Exposure time: 1s.



Immunoprecipitation analysis of 300 µg extracts of LNCaP cells using 3 µg KLK3 antibody (P105037). Western blot was performed from the immunoprecipitate using KLK3 antibody (P105037) at a dilution of 1:2000.