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## anti-Prostate Specific Antigen antibody (AA 1-100)



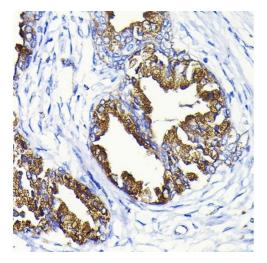
## **Images**



Overview	
Quantity:	100 μL
Target:	Prostate Specific Antigen (PSA)
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Prostate Specific Antigen antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),
	Immunoprecipitation (IP)
Product Details	
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human KLK3
	(NP_001639.1).
Sequence:	MWVPVVFLTL SVTWIGAAPL ILSRIVGGWE CEKHSQPWQV LVASRGRAVC GGVLVHPQWV
	LTAAHCIRNK SVILLGRHSL FHPEDTGQVF QVSHSFPHPL
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Target Details	
Target:	Prostate Specific Antigen (PSA)

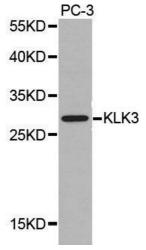
## Target Details

Alternative Name:	KLK3 (PSA Products)
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. 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.,KLK3,APS,KLK2A1,PSA,hK3,Cancer,Tumor immunology,Tumor-associated antigens,Tumor biomarkers,Signal Transduction,Cell Biology & Developmental Biology,Cell Adhesion,Cytoskeleton,Extracellular Matrix,Immunology & Inflammation,Neuroscience,Cell Type Marker,Cardiovascular,Angiogenesis,KLK3
Molecular Weight:	7 kDa/23 kDa/25 kDa/26 kDa/28 kDa
Gene ID:	354
UniProt:	P07288
Pathways:	Complement System
Application Details	
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



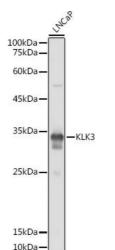
### **Immunohistochemistry**

**Image 1.** Immunohistochemistry of paraffin-embedded human prostate cancer using KLK3 Rabbit pAb (ABIN3022794, ABIN3022795, ABIN3022796 and ABIN6219231) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



#### **Western Blotting**

**Image 2.** Western blot analysis of extracts of PC-3 cell lines, using KLK3 antibody.



#### **Western Blotting**

Image 3. Western blot analysis of extracts of LNCaP cells, using KLK3 antibody (ABIN3022794, ABIN3022795, ABIN3022796 and ABIN6219231) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

Please check the product details page for more images. Overall 5 images are available for ABIN3022795.