

For Research Use Only

# KLK3/PSA Polyclonal antibody

Catalog Number: 10679-1-AP **26 Publications**



## Basic Information

<b>Catalog Number:</b> 10679-1-AP	<b>GenBank Accession Number:</b> BC005307	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 354	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:400 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P07288	
<b>Isotype:</b> IgG	<b>Full Name:</b> kallikrein-related peptidase 3	
<b>Immunogen Catalog Number:</b> AG1060	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 30-34 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> WB : LNCaP cells, Transfected HEK-293 cells IP : LNCaP cells, IHC : human prostate cancer tissue, IF/ICC : LNCaP cells,
<b>Cited Applications:</b> WB, IHC, IF, IP	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

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. kallikrein-related peptidase 3, which is also called PSA (prostate-specific antigen) in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. KLK3 has 5 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yalcin Erzurumlu	36445513	Mol Biol Rep	WB
Yalan Xu	36434710	Stem Cell Res Ther	IHC,IF
Hui Ma	31127646	J Cell Biochem	IHC

## Storage

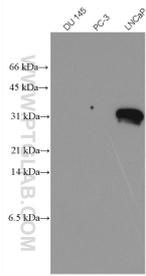
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

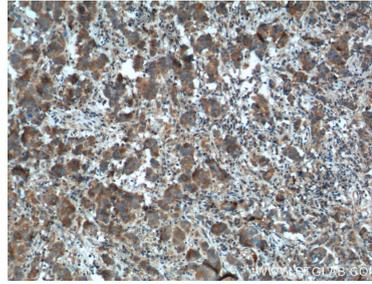
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

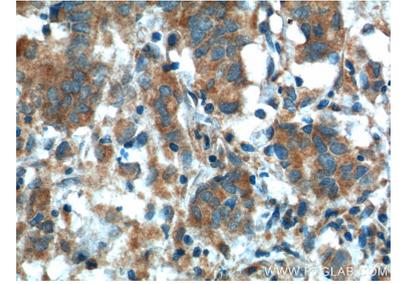
## Selected Validation Data



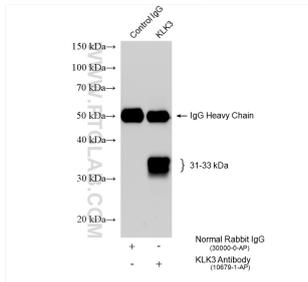
DU 145(PSA-), PC-3(PSA-) and LNCaP (PSA+) cell lysates were subjected to SDS PAGE followed by western blot with 10679-1-AP (KLK3/PSA antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



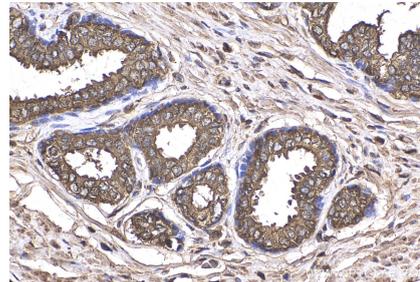
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10679-1-AP (KLK3/PSA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



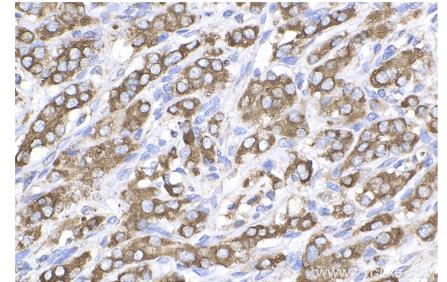
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10679-1-AP (KLK3/PSA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



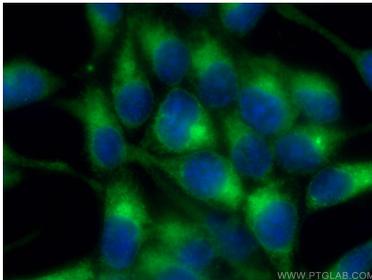
IP result of anti-KLK3/PSA (IP:10679-1-AP, 4ug; Detection:10679-1-AP 1:10000) with LNCaP cells lysate 1520 ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10679-1-AP (KLK3/PSA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10679-1-AP (KLK3/PSA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed LNCaP cells using KLK3/PSA antibody (10679-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).