

# KLK3 Rabbit pAb

Catalog No.: A2052 **1 Publications**

## Basic Information

**Observed MW**

34kDa

**Calculated MW**

29kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse

## 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.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

## Immunogen Information

**Gene ID**

354

**Swiss Prot**

P07288

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 30-261 of human KLK3 (NP\_001639.1).

**Synonyms**

APS; PSA; hK3; KLK2A1; KLK3

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

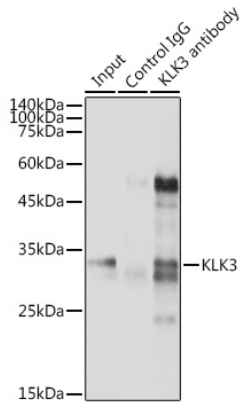
Affinity purification

**Storage**

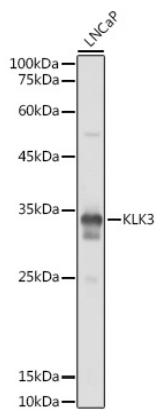
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

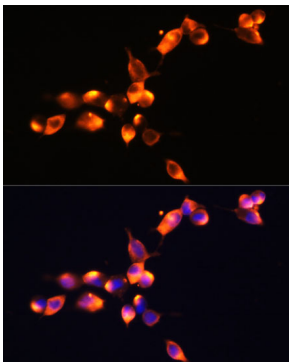
## Validation Data



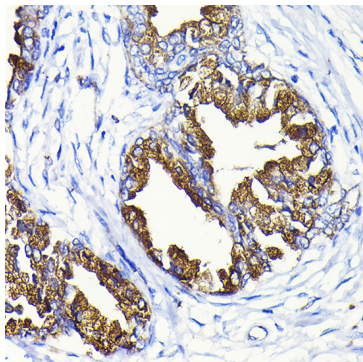
Immunoprecipitation analysis of 300 µg extracts of LNCaP cells using 3 µg KLK3 antibody (A2052). Western blot was performed from the immunoprecipitate using KLK3 antibody (A2052) at a dilution of 1:2000.



Western blot analysis of lysates from LNCaP cells, using KLK3 Rabbit pAb (A2052) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Immunofluorescence analysis of LNCaP cells using KLK3 Rabbit pAb (A2052) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded human prostate cancer using KLK3 Rabbit pAb (A2052) 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.