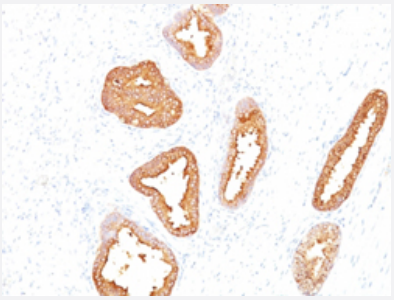
# KLK3 monoclonal antibody, clone A67-B/E3

Catalog # MAB21253 Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human prostate cancer with KLK3 monoclonal antibody, clone A67-B/E3 (Cat # MAB21253).

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against human KLK3. |
| **Immunogen** | PSA (p30) from human sperm plasma. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 33-34 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A/G purification |
| **Isotype** | IgG1, kappa |
| **Recommend Usage** | Flow Cytometry (0.5-1 ug/$10^6$ cells in 0.1 mL)<br>Immunofluorescence (0.5-1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 10 mM PBS (0.05% BSA, 0.05% sodium azide). |

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|---|---|
| **Storage Instruction** | Store at 4°C. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human prostate cancer with KLK3 monoclonal antibody, clone A67-B/E3 (Cat # MAB21253).

- Immunofluorescence

- Flow Cytometry

## Gene Info — KLK3

| | |
|---|---|
| **Entrez GeneID** | 354 |
| **Protein Accession#** | P07288 |
| **Gene Name** | KLK3 |
| **Gene Alias** | APS, KLK2A1, PSA, hK3 |
| **Gene Description** | kallikrein-related peptidase 3 |
| **Omim ID** | 176820 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing ev idence 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 sem inal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably b y 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. Altern ate splicing of this gene generates several transcript variants encoding different isoforms. [provid ed by RefSeq |
| **Other Designations** | P-30 antigen\|gamma-seminoprotein\|kallikrein 3, (prostate specific antigen)\|prostate specific antig en\|semenogelase\|seminin |

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## Pathway

- Pathways in cancer
- Prostate cancer

## Disease

- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Lymphatic Metastasis
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms

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