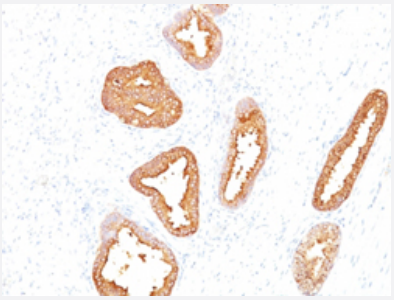
# KLK3 monoclonal antibody, clone A67-B/E3

Catalog # MAB21254 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 # MAB21254).

## 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. |

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|---|---|
| **Storage Instruction** | Store at -20 to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## 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 # MAB21254).

- 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 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. [provided by RefSeq |
| **Other Designations** | P-30 antigen\|gamma-seminoprotein\|kallikrein 3, (prostate specific antigen)\|prostate specific antigen\|semenogelase\|seminin |

## Pathway

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- 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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