KLK3 monoclonal antibody, clone 131-14234

Catalog # MAB4310 Size 1 mg

Specification

Product Description	Mouse monoclonal antibody raised against native KLK3.
Immunogen	Native purified human KLK3.
Host	Mouse
Reactivity	Human
Specificity	human Prostate Specific Antigen (PSA). PSA is a tumor-associated antigen with a molecular weight of 34 KDa. The antigen is found in normal prostatic epithelial lining cells of the ducts and acini, as wel l as in primary and metastatic prostate carcinoma cells. PSA reactivity may also be found in BPH (be nign prostatic hypertrophy), though the pattern of staining is different than that found in carcinoma tiss ues. The staining pattern ranges from cytoplasmic and secretory in normal and benign prostate to cyt oplasmic with membrane in neoplastic prostate.
Form	Liquid
Isotype	IgG1, kappa
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM phosphate buffer, pH 7.4 (150 mM NaCl, 0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
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)
- Immunohistochemistry (Frozen sections)

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Gene Info — KLK3

Entrez GeneID	354
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

Pathway

- Pathways in cancer
- Prostate cancer

Disease

- Breast cancer
- Breast Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Progression
- Edema

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- Genetic Predisposition to Disease
- Lymphatic Metastasis
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms

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