

PSA Monoclonal Antibody

Catalog No: YM0539

Reactivity: Human

Applications: WB;IHC;IF;FCM;ELISA

Target: PSA

Fields: >>Pathways in cancer;>>Prostate cancer

Gene Name: KLK3

Protein Name : Prostate-specific antigen

P07288

Human Gene ld: 354

Human Swiss Prot

No:

Immunogen : Purified recombinant fragment of PSA (aa26-251) expressed in E. Coli.

Specificity: PSA Monoclonal Antibody detects endogenous levels of PSA protein.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Monoclonal, Mouse

Dilution: WB 1:500 - 1:2000. IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA:

1:10000.. IF 1:50-200

Purification : Affinity purification

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 29kD

Cell Pathway : Pathways in cancer; Prostate cancer;

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P References: 1. Am J Surg Pathol. 2007 Sep;31(9):1351-5.

2. Chem Biol Drug Des. 2007 Sep;70(3):261-7.

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. 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, Jul 2008],

Function: catalytic activity:Preferential cleavage: -Tyr-|-Xaa-.,function:Hydrolyzes

semenogelin-1 thus leading to the liquefaction of the seminal coagulum.,online information:Prostate-specific antigen entry,similarity:Belongs to the peptidase S1

family., similarity: Belongs to the peptidase S1 family. Kallikrein

subfamily., similarity: Contains 1 peptidase S1 domain.,

Subcellular Location :

Secreted.

Expression: Leukocyte,PNS,Prostate,

Sort : 13099

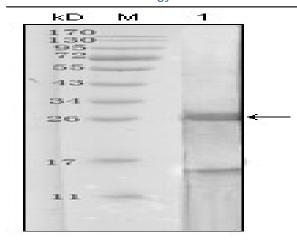
No4: 1

Host: Mouse

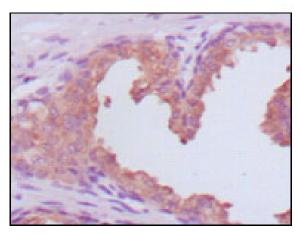
Modifications: Unmodified

Products Images

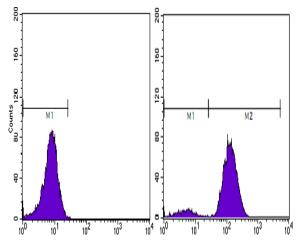
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Western Blot analysis using PSA Monoclonal Antibody against truncated PSA recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human prostate carcinoma tissues, showing cytoplasmic localization with DAB staining using PSA Monoclonal Antibody.



Flow cytometric analysis of PC-3 cells using PSA Monoclonal Antibody (right) and negative control (left).