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KLK3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1721a

Product Information

Application	WB, FC, E
Primary Accession	P07288
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8A12
Calculated MW	28741
Description	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.
Immunogen	Purified recombinant fragment of human KLK3 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	354
Other Names	Prostate-specific antigen, PSA, 3.4.21.77, Gamma-seminoprotein, Seminin, Kallikrein-3, P-30 antigen, Semenogelase, KLK3, APS
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KLK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLK3
Synonyms	APS
Function	Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.
Cellular Location	Secreted.

References

1. Oncogene. 2010 Jan 14;29(2):188-200. 2. Biol Chem. 2009 Sep;390(9):921-9.

Images

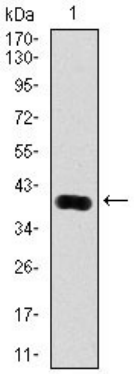

Figure 1: Western blot analysis using KLK3 mAb against human KLK3 (AA: 109-216) recombinant protein. (Expected MW is 37.2 kDa)

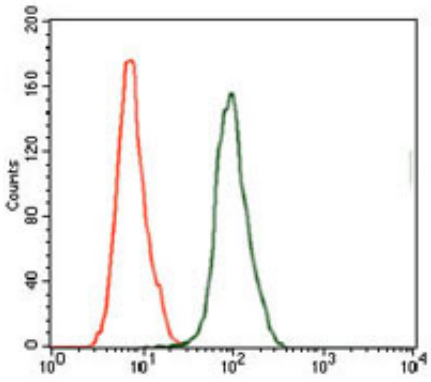

Figure 2: Flow cytometric analysis of HeLa cells using KLK3 mouse mAb (green) and negative control (red).