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Prostate Specific Antigen (PSA) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone KLK3/801]
Catalog # AH11558

Product Information

Application	IHC, IF, FC
Primary Accession	P07288
Other Accession	354, 171995
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	KLK3/801
Calculated MW	28741

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
Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Prostate Specific Antigen (PSA) Antibody - With BSA and Azide 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.

Background

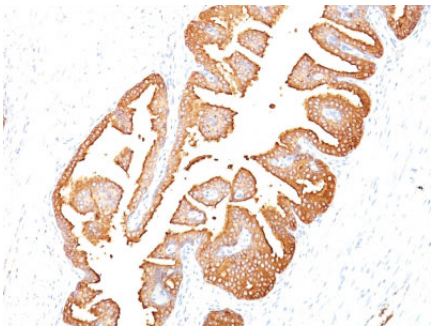
Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly

specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues. PSA is a chymotrypsin-like serine protease (kallikrein family) exclusively produced by the prostate epithelium, and abundant in seminal fluid. PSA can be detected in the sera of patients with prostatic carcinoma. It is predominantly complexed to a liver-derived serine protease inhibitor, alpha-1-antichymotrypsin (ACT). A higher proportion of serum PSA is complexed to ACT in prostate cancer than in benign prostate hyperplasia.

References

Watt, K.W., et al. 1986. Human prostate-specific antigen: structural and functional similarity with serine proteases. Proc. Natl. Acad. Sci. USA 83: 3166-3170. |

Images



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with PSA Monoclonal Antibody (KLK3/801).