

Immunotag™ PSA Monoclonal Antibody

Antibody Specification	
Catalog No.	ITM0539
Product Description	Immunotag™ PSA Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PSA
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,FCM,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant fragment of PSA (aa26-251) expressed in E. Coli.
Specificity	PSA Monoclonal Antibody detects endogenous levels of PSA protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	KLK3
Accession No.	P07288
Alternate Names	KLK3; APS; Prostate-specific antigen; PSA; Gamma-seminoprotein; Semin; Kallikrein-3; P-30 antigen; Semenogelase

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Description	kallikrein related peptidase 3(KLK3) Homo sapiens 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],
Cell Pathway/ Category	Pathways in cancer,Prostate cancer,
Protein Expression	Leukocyte,PNS,Prostate,
Subcellular Localization	extracellular region,extracellular space,nucleus,protein complex,extracellular exosome,
Protein 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.