

AM01212PU-N**Monoclonal Antibody to Kallikrein-3 / PSA / KLK3 - Purified**

Alternate names:	Gamma-seminoprotein, P-30 antigen, Prostate-specific antigen, Semenogelase
Quantity:	1 mg
Concentration:	1.0 mg/ml
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 two transcript variants encoding different isoforms. Additional transcript variants have been described, but it is unclear if these transcripts are normally expressed or if they are specific to benign or malignant tumors.
Uniprot ID:	P07288
NCBI:	NP_001025218.1
GeneID:	354
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	BGN/PSA4
Immunogen:	Native (PSA isolated from pooled Human seminal fluid).
Format:	State: Liquid purified IgG fraction Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.2 Preservatives: 0.09% Sodium Azide
Applications:	ELISA (1/10K-1/40K). Western Blot: A PSA triplet is observed at ~30 kDa in the absence of DTT and a doublet in the presence of DTT. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody clone BGN/PSA4 (10.06/P6) is specific for Human Prostate Specific Antigen (PSA). Species: Human. Other species not tested.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.