

Product datasheet for **AM09250HR-N**

Prostate Specific Antigen (KLK3) (free) Mouse Monoclonal Antibody [Clone ID: 103]

Product data:

Product Type:	Primary Antibodies
Clone Name:	103
Applications:	ELISA
Recommended Dilution:	ELISA: This HRP-conjugated monoclonal PSA antibody can be used as a Tracer/Detection antibody in a Sandwich ELISA for Human free PSA detection in combination with a Capture antibody. <i>Suggested Capture Coating Dose:</i> 0.5 µg/well, <i>Substrate:</i> TMB. If the above suggested conditions are followed approximately 22 pg/mL of Free PSA can be detected.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Purified Human Free PSA.
Specificity:	Reacts with both, total and free Human PSA.
Formulation:	0.01M PBS, pH 7.0 ± 0.1 in 50% Glycerol. Label: HRP State: Liquid purified Ig fraction. Label: Horseradish Peroxidase
Purification:	Affinity Chromatography on Protein G.
Conjugation:	HRP
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	kallikrein related peptidase 3
Database Link:	Entrez Gene 354 Human P07288



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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.

Synonyms: Prostate-specific antigen, Semenogelase, Gamma-seminoprotein, P-30 antigen

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Pathways in cancer, Prostate cancer