

Product datasheet for **DM1036HRP**

Prostate Specific Antigen (KLK3) Mouse Monoclonal Antibody [Clone ID: CHYH2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CHYH2
Applications:	ELISA, IHC
Recommended Dilution:	ELISA: This HRP-conjugated monoclonal antibody can be used as a tracer/detection antibody in Sandwich ELISA applications for human PSA detection in combination with a capture antibody (Cat.-No DM1035). <i>Suggested Capture Coating Dose:</i> 0.5-1.0µg/well (Substrate: TMB). Approximately 1 ng/ml of PSA in human serum can be detected with an assay range of 0 to 200 ng/ml. Clone was tested on Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections by ABC immunoperoxidase assay.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Prostate Specific Antigen
Specificity:	This antibody is reactive to normal prostate, benign prostate hyperplasia and prostate malignant carcinoma. Does not cross react with normal human tissues tested.
Formulation:	0.01M PBS, pH 7.0 ± 0.1 in 50% Glycerol Label: HRP State: Liquid purified IgG fraction
Purification:	Affinity Chromatography on Protein G
Conjugation:	HRP
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	kallikrein related peptidase 3



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Database Link:	Entrez Gene 354 Human P07288
Background:	<p>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.</p>
Synonyms:	Prostate-specific antigen, Semenogelase, Gamma-seminoprotein, P-30 antigen
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Pathways in cancer, Prostate cancer