

Product datasheet for **DM1036**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	CHYH2
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: Reacts with Human PSA. Matched pair antibodies are DM1035 (Clone CHYH1) and DM1036 (Clone CHYH2). Western blot: 10 µg/ml MAb will allow visualization of 1 µg/lane of Human PSA. Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections using ABC immunoperoxidase assay.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Prostate Specific Antigen
Specificity:	This antibody detects normal prostate, benign prostate hyperplasia and prostate malignant carcinoma.
Formulation:	0.01M K ₂ HPO ₄ -KH ₂ PO ₄ , pH 7.0 State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with double distilled water to a final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) 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

Product images:

Western Blot: Detection of PSA antigen (100ng/well) using 1 ug/mL mouse anti-human PSA mAb clone CHYH2.