

Mouse Anti-KLK3 Monoclonal Antibody

CAB-1949MH Mouse(KLK3)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Mouse Anti-KLK3 Monoclonal Antibody
Antigen Description	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.
specificity	Human Prostate-specific antigen. No cross reactivity with Human Albumin, AFP, CEA, PAP, CA-125, CA 19-9 or CA 15-3.
Target	KLK3
Immunogen	Human PSA
Host	Mouse
Isotype	IgG1
Source	Ascites
Species	Human
Clone	A906
Affinity Constant	6 x 10 ⁹ l/mol (purified unconjugate form)
Purification	>95 % pure. S-300 column chromatography
conjugation	N/A
Applications	ELISA

PACKAGING

Format	HRP, Liquid
Concentration	0.53mg/ml (OD280nm)0.53mg/ml (OD280nm)
Buffer	0.05M Potassium phosphate, 0.085% Sodium chloride, pH 7.2 containing BSA
Storage	Store at -8°C. DO NOT FREEZE! May become inactivated upon freezing.
Preservative	Proclin
Warning	Use of sodium azide as a preservative will substantially inhibit the enzyme activity of horseradish peroxidase.

ANTIGEN GENE INFORMATION

Gene Name	KLK3 kallikrein-related peptidase 3 [Homo sapiens]
Official Symbol	KLK3

Synonyms	KLK3; kallikrein-related peptidase 3; APS, kallikrein 3, (prostate specific antigen); prostate-specific antigen; PSA; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen; APS; hK3; KLK2A1;
GeneID	354
mRNA Refseq	NM_001030047
Protein Refseq	NP_001025218
MIM	176820
UniProt ID	P07288
Chromosome Location	19q13.41
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Prostate cancer, organism-specific biosystem; Prostate cancer, conserved biosystem;
Function	peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;