



Anti-PSA monoclonal antibody, clone C729M (DMAB2141MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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.
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Specificity	In sandwich ELISA, reacts with total PSA (free PSA and PSA complexed with ACT).
Immunogen	Purified PSA
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	C729M
Affinity Constant	Not determined
Purification	≥90 % pure (SDS-PAGE). Protein A chromatography. Product is 0.2um filtered.
Conjugate	Unconjugated
Format	Purified, Liquid
Concentration	6.6mg/ml (OD280nm, E1% = 1.4)

Size	1 mg
Buffer	PBS, pH 7.4+0.2
Preservative	0.05% Sodium Azide
Storage	Short term (up to 7 days) store at 2-8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	KLK3kallikrein-related peptidase 3 [Homo sapiens]
Official Symbol	KLK3
Synonyms	APS; PSA; hK3; KLK2A1; KLK3; prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen
Entrez Gene ID	354
Protein Refseq	NP_001025218
UniProt ID	P07288
Chromosome Location	19q13.41
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Diabetes pathways, 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; Regulation of Androgen receptor activity, organism-specific biosystem; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity