



KLK3 peptide (DAG-P1078)

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. [provided by RefSeq, Jul 2008]

Purity	> 95 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	ELISA, WB
Sequence Similarities	Belongs to the peptidase S1 family. Kallikrein subfamily. Contains 1 peptidase S1 domain.
Format	Liquid
Buffer	Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

GENE INFORMATION

Gene Name	KLK3 kallikrein-related peptidase 3 [Homo sapiens (human)]
Official Symbol	KLK3
Synonyms	KLK3; kallikrein-related peptidase 3; APS; PSA; hK3; KLK2A1; prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen;
Entrez Gene ID	354
mRNA Refseq	NM_001030047.1
Protein Refseq	NP_001025218.1
UniProt ID	P07288
Chromosome Location	19q13.41
Pathway	Androgen receptor signaling pathway, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Prostate Cancer, organism-specific biosystem; Prostate cancer, organism-specific biosystem; Prostate cancer, conserved biosystem; Regulation of Androgen receptor activity, organism-specific bios
Function	protein binding; serine-type endopeptidase activity; serine-type peptidase activity;