

## Product datasheet for BA539

### Kallikrein-3 / PSA / KLK3 Human Protein

#### Product data:

Product Type:	Native Proteins
Description:	Kallikrein-3 / PSA / KLK3 human protein, 0.1 mg
Species:	Human
Protein Source:	Seminal Fluid
Concentration:	lot specific
Purity:	>96% pure by SDS-PAGE
Buffer:	State: Liquid (sterile filtered) purified protein. Buffer System: PBS, pH 7.5 containing 0.09% Sodium Azide as preservative.
Preparation:	Liquid (sterile filtered) purified protein.
Applications:	ELISA. Western Blot.
Protein Description:	Prostate Specific Antigen (PSA) is a glycoprotein of approximately 30 kDa found mainly in prostatic tissue and seminal fluid. PSA is also present in small quantities in the serum of normal men and is often elevated in the presence of prostate cancer and in other prostate disorders.
Note:	Caution: Tested and found negative for HBsAg and HIV-1 and 2, and HCV antibodies by FDA approved method, but according to laboratory practice should still be handled as though infectious.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001025218</a>
Locus ID:	354
Cytogenetics:	19q13.33
Synonyms:	APS; hK3; KLK2A1; PSA



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**Summary:**

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. The gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. It encodes a single-chain glycoprotein, a protease which is synthesized in the epithelial cells of the prostate gland, and is 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. The 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, Dec 2019]

**Protein Families:**

Druggable Genome, Protease, Secreted Protein

**Protein Pathways:**

Pathways in cancer, Prostate cancer