

**BA539****Native Human PSA (Kallikrein-3/KLK3) - Purified**

<b>Alternate names:</b>	Gamma-seminoprotein, P-30 antigen, Prostate-specific antigen, Semenogelase
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	<p>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.</p>
<b>Uniprot ID:</b>	<a href="#">P07288</a>
<b>NCBI:</b>	<a href="#">NP_001025218.1</a>
<b>GeneID:</b>	<a href="#">354</a>
<b>Species:</b>	Human
<b>Source:</b>	Seminal Fluid, (Human)
<b>Format:</b>	<b>State:</b> Liquid (sterile filtered) purified protein. <b>Purity:</b> >96% pure by SDS-PAGE <b>Buffer System:</b> PBS, pH 7.5 containing 0.09% Sodium Azide as preservative.
<b>Applications:</b>	ELISA. Western Blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Description:</b>	<p>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.</p> <p><b>Molecular weight:</b> 30 kDa</p>
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing Shelf life: one year from despatch.
<b>Caution:</b>	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.