

Datasheet: 7820-0504

**BATCH NUMBER 163307**

<b>Description:</b>	NATIVE HUMAN PROSTATE SPECIFIC ANTIGEN
<b>Name:</b>	PROSTATE SPECIFIC ANTIGEN
<b>Other names:</b>	KALLIKREIN 3
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified protein from human seminal fluid - liquid
<b>Preparation</b>	Sterile filtered through a 0.2 µm membrane
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="http://www.uniprot.org/entry/P07288">P07288</a> <a href="#">Related reagents</a>

**Entrez Gene:**[354](#) KLK3 [Related reagents](#)

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<b>Synonyms</b>	APS
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<b>Product Information</b>	<p><b>Native Human prostate specific antigen</b> preparation is a purified form of human prostate-specific antigen (PSA), a glycoprotein of ~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 prostatic disorders.</p> <p>Native Human prostate specific antigen demonstrates high specific activity and low levels of any contaminating proteins, including those with trypsin-like protease activity (<a href="#">Manning et al. 2012</a>).</p>
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<b>Protein Molecular Weight</b>	30 kDa
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<b>Purity</b>	>96% by SDS-PAGE
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<b>References</b>	<ol style="list-style-type: none"><li>1. Chornokur, G. <i>et al.</i> (2011) Impedance-Based Miniaturized Biosensor for Ultrasensitive and Fast Prostate-Specific Antigen Detection <a href="#">Journal of Sensors, vol. 2011, Article ID 983752</a></li><li>2. Arya, S.K. and Bhansali, S. (2012) Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection <a href="#">Biosensors Journal 1: H110601</a></li><li>3. Manning, M.L, <i>et al.</i> (2012) Trypsin-like proteolytic contamination of commercially available psa purified from human seminal fluid. <a href="#">Prostate. 72 (11): 1233-8.</a></li><li>4. Manning ML <i>et al.</i> (2013) Proteolysis of complement factors iC3b and C5 by the serine protease prostate-specific antigen in prostatic fluid and seminal plasma. <a href="#">J Immunol. 190 (6): 2567-74.</a></li><li>5. Piletska, E.V. <i>et al.</i> (2014) Microplates with enhanced immobilization capabilities controlled by a magnetic field <a href="#">J Chin Adv Mat Soc. 2: 118-29.</a></li><li>6. Kostova, M.B. <i>et al.</i> (2018) PSA-alpha-2-macroglobulin complex is enzymatically active in the serum of patients with advanced prostate cancer and can degrade circulating peptide hormones. <a href="#">Prostate. 78 (11): 819-29.</a></li><li>7. Li, H. <i>et al.</i> (2020) Comprehensive role of prostate-specific antigen identified with proteomic analysis in prostate cancer. <a href="#">J Cell Mol Med. 24 (17): 10202-15.</a></li></ol>
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<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.</p>
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<b>Guarantee</b>	12 months from date of despatch
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**Health And Safety  
Information**

Material Safety Datasheet documentation #10258 available at:  
<https://www.bio-rad-antibodies.com/SDS/7820-0504>  
10258

Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg and HCV antibodies.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious

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**Regulatory**

For research purposes only

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