

## Datasheet: 7820-0504

<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>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P07288</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">354</a>   KLK3   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	APS

**Product Information**   **Native Human prostate specific antigen** preparation is 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 prostate disorders.

Native Human prostate specific antigen demonstrates high specific activity and low levels of any contaminating proteins, including those with trypsin-like protease activity ([Manning \*et al.\* 2012](#)).

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**Protein Molecular Weight** 30 kDa

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**Purity** >96% by SDS-PAGE

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**References**

1. Manning, M.L, *et al.* (2012) Trypsin-like proteolytic contamination of commercially available psa purified from human seminal fluid. [Prostate. 72 \(11\): 1233-8.](#)
2. Arya, S.K. and Bhansali, S. (2012) Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection [Biosensors Journal 1: H110601](#)
3. Chornokur, G. *et al.* (2011) Impedance-Based Miniaturized Biosensor for Ultrasensitive and Fast Prostate-Specific Antigen Detection [Journal of Sensors, vol. 2011, Article ID 983752](#)
4. Manning ML *et al.* (2013) Proteolysis of complement factors iC3b and C5 by the serine protease prostate-specific antigen in prostatic fluid and seminal plasma. [J Immunol. 190 \(6\): 2567-74.](#)
5. Piletska, E.V. *et al.* (2014) Microplates with enhanced immobilization capabilities controlled by a magnetic field [J Chin Adv Mat Soc. 2: 118-29.](#)
6. Isaacs, J.T. *et al.* (2018) SYNTHETIC ENHANCEMENT OF THE T-CELL ARMAMENTARIUM AS AN ANTI-CANCER THERAPY [US Patent application 20180148480 A1](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 12 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10258 available at:  
10258: <https://www.bio-rad-antibodies.com/uploads/MSDS/10258.pdf>

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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