

Datasheet: 7820-0504

BATCH NUMBER 172272

Description:	NATIVE HUMAN PROSTATE SPECIFIC ANTIGEN
Name:	PROSTATE SPECIFIC ANTIGEN
Other names:	KALLIKREIN 3
Format:	Purified
Product Type:	Purified Protein
Quantity:	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.

	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.

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

Entrez Gene:

[354](#) KLK3 [Related reagents](#)

Synonyms APS

Product Information **Native Human prostate specific antigen** 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.

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](#)).

Protein Molecular Weight 30 kDa

Purity >96% by SDS-PAGE

- References**
1. Chornokur, G. *et al.* (2011) Impedance-Based Miniaturized Biosensor for Ultrasensitive and Fast Prostate-Specific Antigen Detection [Journal of Sensors. 2011: 1-7.](#)
 2. , A.S.K. & Bhansali, S. (2012) Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection [Biosensors Journal. 1: 1-7.](#)
 3. Manning, M,L, *et al.* (2012) Trypsin-like proteolytic contamination of commercially available psa purified from human seminal fluid. [Prostate. 72 \(11\): 1233-8.](#)
 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. , P.E.V. *et al.* (2014) Microplates with enhanced immobilization capabilities controlled by a magnetic field [Journal of the Chinese Advanced Materials Society. 2 \(2\): 118-129.](#)
 6. Kostova, M.B. *et al.* (2018) PSA-alpha-2-macroglobulin complex is enzymatically active in the serum of patients with advanced prostate cancer and can degrade circulating peptide hormones. [Prostate. 78 \(11\): 819-29.](#)
 7. Li, H. *et al.* (2020) Comprehensive role of prostate-specific antigen identified with proteomic analysis in prostate cancer. [J Cell Mol Med. 24 \(17\): 10202-15.](#)
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Storage 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.

Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10258 available at:

<https://www.bio-rad-antibodies.com/SDS/7820-0504>

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

Regulatory

For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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