

## Product datasheet

# Anti-Prostate Specific Antigen antibody [EP1588Y] ab76113

Recombinant RabMAb

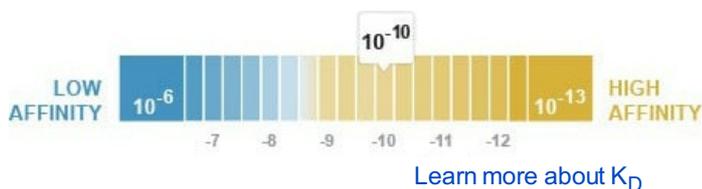
11 References 5 Images

### Overview

<b>Product name</b>	Anti-Prostate Specific Antigen antibody [EP1588Y]
<b>Description</b>	Rabbit monoclonal [EP1588Y] to Prostate Specific Antigen
<b>Host species</b>	Rabbit
<b>Specificity</b>	The antibody provided good results in western blot when tested in human prostate lysate. Unfortunately, when 22RV1 cell lysate was used no band was detected and inconsistent results were obtained with LNCaP cell lysate (where different lots of cell lysate were used for the test). Please contact our Scientific Support if you have any feedback and/or questions.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human Prostate Specific Antigen aa 200-300 (C terminal). The exact sequence is proprietary. Database link: <a href="#">P07288</a>
<b>Positive control</b>	WB: LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate and LNCaP (Human prostate carcinoma epithelial cell) treated with 100nM DHT for 2 days whole cell lysate IHC-P: Human prostate cancer tissue.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 5.04 x 10 <sup>-10</sup> M



<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1588Y
<b>Isotype</b>	IgG

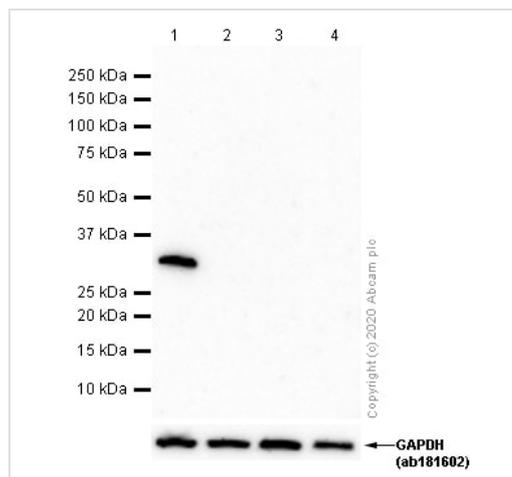
## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab76113 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 29 kDa). <b>For unpurified use at 1/10,000 - 1/50,000</b>
<b>IHC-P</b>		1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> . <b>For unpurified use at 1/100 - 1/250</b>

## Target

<b>Function</b>	Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.
<b>Sequence similarities</b>	Belongs to the peptidase S1 family. Kallikrein subfamily. Contains 1 peptidase S1 domain.
<b>Cellular localization</b>	Secreted.



Western blot - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

**All lanes :** Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113) at 1/1000 dilution ((Purified))

**Lane 1 :** LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate at 15  $\mu$ g

**Lane 2 :** PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate at 20  $\mu$ g

**Lane 3 :** 22Rv1 (Human prostate carcinoma epithelial cell) whole cell lysate at 20  $\mu$ g

**Lane 4 :** DU 145 (Human prostate carcinoma epithelial cell) whole cell lysate at 20  $\mu$ g

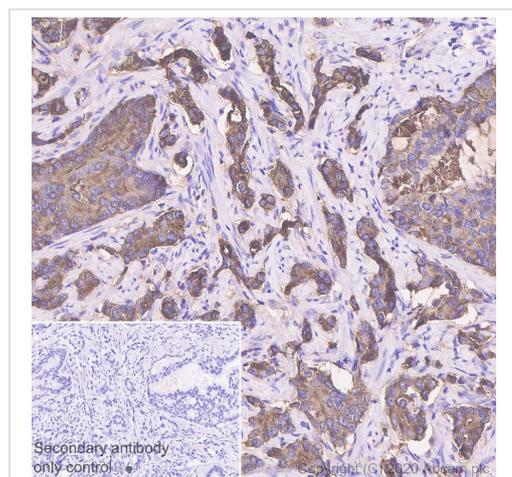
### Secondary

**Lanes 1-3 :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 29 kDa

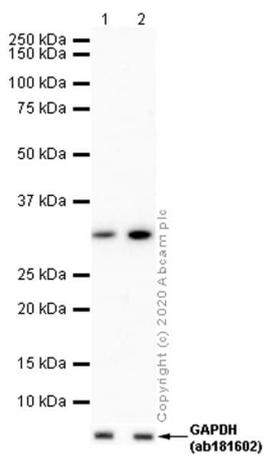
**Observed band size:** 34 kDa

The expression profile observed is consistent with what has been described in the literatures (PMID: 24906821, 17620434 and 25076860).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate cancer tissue sections labeling Prostate Specific Antigen with purified ab76113 at 1/1000 dilution (0.51  $\mu$ g/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

**All lanes :** Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113) at 1/1000 dilution

**Lane 1 :** LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate

**Lane 2 :** LNCaP (Human prostate carcinoma epithelial cell) treated with 100nM DHT for 2 days whole cell lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/20000 dilution

**Predicted band size:** 29 kDa

OI-RD Scanning - Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

Anti-Prostate Specific Antigen antibody [EP1588Y] (ab76113)

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