

Anti-Prostate Specific Antigen antibody [EP1588Y] - Low endotoxin, Azide free ab215983

Recombinant RabMAb

[5 References](#) [3 Images](#)

Overview

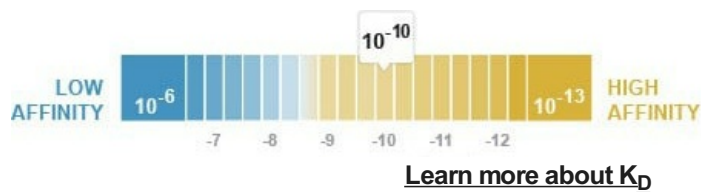
Product name	Anti-Prostate Specific Antigen antibody [EP1588Y] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EP1588Y] to Prostate Specific Antigen - Low endotoxin, Azide free
Host species	Rabbit
Specificity	The antibody provided good results in western blot when tested in human prostate 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.
Tested applications	Suitable for: mIHC, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human prostate carcinoma tissue lysate. IHC-P: Human prostate cancer tissue.
General notes	<p>ab215983 is the carrier-free version of ab76113.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Dissociation constant (K_D)	$K_D = 5.04 \times 10^{-10}$ M



Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1588Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab215983 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

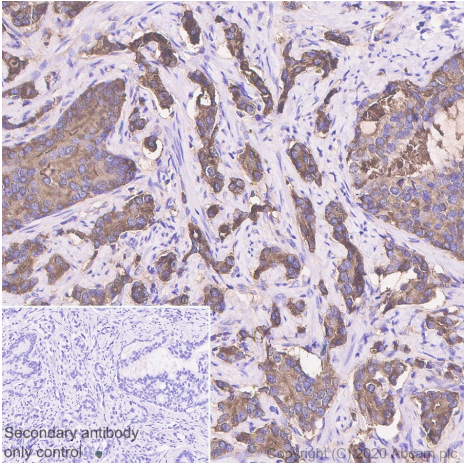
Application	Abreviews	Notes
mlHC		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
WB		Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 29 kDa).

Target

Function	Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.
-----------------	--

Sequence similarities	Belongs to the peptidase S1 family. Kallikrein subfamily. Contains 1 peptidase S1 domain.
Cellular localization	Secreted.

Images

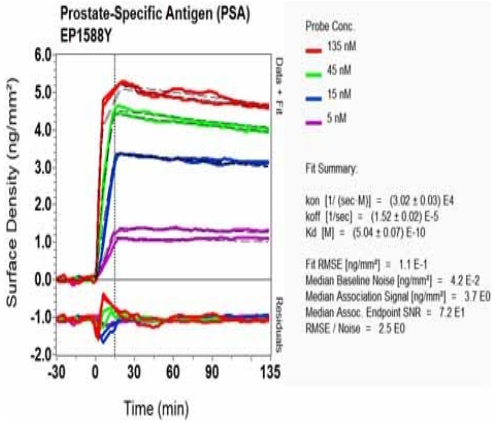


Secondary antibody only control

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prostate Specific Antigen antibody [EP1588Y] - Low endotoxin, Azide free (ab215983)

This data was developed using [ab76113](#), the same antibody clone in a different buffer formulation.

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 µg/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.



Prostate-Specific Antigen (PSA)
EP1588Y

Probe Conc.
135 nM
45 nM
15 nM
5 nM

Fit Summary:
kon [1/(sec·M)] = (3.02 ± 0.03) E4
koff [1/sec] = (1.52 ± 0.02) E-5
Kd [M] = (5.04 ± 0.07) E-10

Fit RMSE [ng/mm²] = 1.1 E-1
Median Baseline Noise [ng/mm²] = 4.2 E-2
Median Association Signal [ng/mm²] = 3.7 E0
Median Assoc. Endpoint SNR = 7.2 E1
RMSE / Noise = 2.5 E0

SPR Scanning - Anti-Prostate Specific Antigen antibody [EP1588Y] - Low endotoxin, Azide free (ab215983)

Equilibrium disassociation constant (K_D)

Learn more about K_D

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab76113](#)).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Prostate Specific Antigen antibody [EP1588Y] -
Low endotoxin, Azide free (ab215983)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors