Product datasheet

Anti-Prostate Specific Antigen antibody ab53774

Overview

Product name  
Anti-Prostate Specific Antigen antibody

Description  
Rabbit polyclonal to Prostate Specific Antigen

Host species  
Rabbit

Specificity  
This antibody detects endogenous levels of total Prostate Specific Antigen protein.

Tested applications  
Suitable for: WB, IHC-P

Species reactivity  
Reacts with: Mouse, Human

Immunogen  
Synthetic peptide derived from human Prostate Specific Antigen

General notes  
Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form  
Liquid

Storage instructions  
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer
pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications
Our Abpromise guarantee covers the use of ab53774 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>🌟🌟🌟🌟🌟</td>
<td>1/500 - 1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 29 kDa).</td>
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<td>IHC-P</td>
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<td>Use at an assay dependent concentration.</td>
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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

All lanes: Anti-Prostate Specific Antigen antibody (ab53774) at 1/500 dilution

Lane 1: Extracts from mouse heart
Lane 2: Extracts from mouse heart, plus immunising peptide

Predicted band size: 29 kDa
Observed band size: 34 kDa

why is the actual band size different from the predicted?
Ab53774 staining human normal prostate tissue. Staining is localized to cytoplasm and extracellular spaces.

Left panel: with primary antibody at 1 µg/ml. Right panel: isotype control.

Sections were stained using an automated system (DAKO Autostainer Plus), at room temperature: sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX.

Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be requir...