

Product datasheet

Anti-Prostate Specific Antigen antibody [8301] ab403

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Overview

Product name	Anti-Prostate Specific Antigen antibody [8301]
Description	Mouse monoclonal [8301] to Prostate Specific Antigen
Host species	Mouse
Specificity	Human prostate-specific antigen - 100% PSA/alpha-1-ACT-complex - 59% Kallikrein - <0.04% PAP - <0.04% Cross-reactivity values have been calculated on weight/weight basis using 125-I-labelled human human prostate-specific antigen in assay. They can vary because of the presence of antigen or related impurities in protein preparations used for cross reactivity assays. Affinity constant: 1×10^{11} l/mol human prostate-specific antigen.
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	native protein (purified), corresponding to amino acids 158-163 of Human Prostate Specific Antigen
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 6.00 Preservative: 0.095% Sodium azide Constituents: 0.335% PBS, 1.0878% Sodium citrate, 0.9% Sodium chloride
Purity	Protein A purified
Clonality	Monoclonal
Clone number	8301

Myeloma	unknown
Isotype	IgG1
Light chain type	unknown

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab403 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
IHC-P		

Application notes

ELISA: Use at an assay dependant concentration.

IHC-P: Use at an assay dependent dilution.

RIA: Use at an assay dependant concentration.

Nanowires array: 1/50 - 1/500.

Not tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

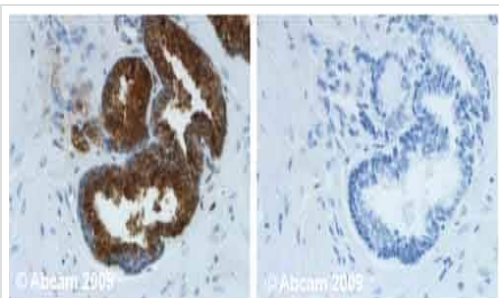
Target

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prostate Specific Antigen antibody [8301] (ab403)

Human normal prostate. Staining is localised as cytoplasmic and secreted. Left panel: with primary antibody at 1 µg/ml. Right panel: isotype control. Sections were stained using an automated system, at room temperature: sections were rehydrated and antigen retrieved with buffers (citrate pH 6.1) in a PT Link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected 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 required.

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

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