Datasheet: VMA00275

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI PROSTATE SPECIFIC ANTIGEN</th>
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<tbody>
<tr>
<td>Specificity:</td>
<td>PROSTATE SPECIFIC ANTIGEN</td>
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<tr>
<td>Format:</td>
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<tr>
<td>Product Type:</td>
<td>PrecisionAb™ Monoclonal</td>
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<tr>
<td>Clone:</td>
<td>OTI1A1</td>
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<tr>
<td>Isotype:</td>
<td>IgG1</td>
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<tr>
<td>Quantity:</td>
<td>100 µl</td>
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**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](http://www.bio-rad-antibodies.com/protocols).

<table>
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<tr>
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<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td>1/1000</td>
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</table>

*PrecisionAb antibodies have been extensively validated for the western blot application.* The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

**Target Species**
Human

**Product Form**
Purified IgG - liquid

**Preparation**
Mouse monoclonal antibody purified by affinity chromatography from tissue culture supernatant

**Buffer Solution**
Phosphate buffered saline

**Preservative Stabilisers**
0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin
50% Glycerol

**Immunogen**
Recombinant protein corresponding to amino acids 25-261 of human prostate specific antigen (NP_001639) produced in *E. coli*

**External Database Links**

- **UniProt:**
  - [P07288](http://www.uniprot.org/uniprot/P07288)
  - Related reagents

- **Entrez Gene:**
  - KLK3
  - Related reagents

**Synonyms**
APS
Specificity

Mouse anti Human prostate specific antigen antibody recognizes the prostate specific antigen (PSA), also known as P-30 antigen, gamma-seminoprotein, kallikrein-3, semenogelase and semenin.

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. KLK3 gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. A product of the KLK3 gene, PSA is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of PSA, in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of KLK3 generates several transcript variants encoding different isoforms (provided by RefSeq, Jul 2008).

Mouse anti Human prostate specific antigen antibody detects a band of 29 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti prostate specific antigen detects a band of approximately 29 kDa in LNCaP cell lysates.

Instructions For Use

Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page.

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

As supplied, 12 months from date of despatch.

Acknowledgements

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Health And Safety


Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)