

Datasheet: VMA00275KT

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|----------------------|--|
| Description: | PROSTATE SPECIFIC ANTIGEN ANTIBODY WITH CONTROL LYSATE |
| Specificity: | PROSTATE SPECIFIC ANTIGEN |
| Format: | Purified |
| Product Type: | PrecisionAb Monoclonal |
| Clone: | OT11A1 |
| Isotype: | IgG1 |
| Quantity: | 2 Westerns |

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.

| | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪ | | | 1/1000 |

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 | 20µl Mouse monoclonal antibody purified by affinity chromatography from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative | 0.09% Sodium Azide (NaN ₃) |
| Stabilisers | 1% Bovine Serum Albumin 50% Glycerol |
| Immunogen | Recombinant protein corresponding to amino acids 25-261 of human prostate specific antigen (NP_001639) produced in <i>E. coli</i> |

**External Database
Links**

UniProt:

[P07288](#) [Related reagents](#)

Entrez Gene:

[354](#) [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 seminin.

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.

Lysate Composition

400µg LNCaP lysate lyophilized in RIPA buffer.

Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage

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

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

Guarantee

As supplied, 12 months from date of despatch.

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Health And Safety Information Material Safety Datasheet documentation #10048 #10561 available at:
Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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 \(MCA928\)](#)

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