

## Datasheet: VMA00821

<b>Description:</b>	MOUSE ANTI PSMA7
<b>Specificity:</b>	PSMA7
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	CD01/4D5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 µl

## 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).

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

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** 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 dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-248 of human PSMA7
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O14818</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5688</a>    PSMA7    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HSPC
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti PSMA7 antibody</b> recognizes proteasome subunit alpha type-7, also known as XAPC7 and HSPC.</p> <p>PSMA7 is a multifunctional protein which forms a subunit of the 20S proteasome core complex, playing a role in degradation of proteins through the ubiquitin-proteasome pathway (<a href="#">Xia et al. 2019</a>). The gene encoding PSMA7 is involved with inflammation and immunity, and is associated with major depressive disorder and reduction of patient responses to some drugs. It has also been identified as a biomarker for colorectal cancer and inflammatory bowel disease (IBD) (<a href="#">Zheng et al. 2017</a>). PSMA7 is involved with the development and progression of several types of malignancy, and interacts with several proteins involved in tumorigenesis including HIF1-alpha (<a href="#">Xia et al. 2019</a>). In colorectal cancer, PSMA7 forms a complex with NOD1 which may promote cancer progression, and PSMA7 has been suggested as a potential target for tumors that are caused by NOD1 dysfunction (<a href="#">Yang et al. 2013</a>).</p>
<b>Western Blotting</b>	Mouse anti PSMA7 antibody detects a band of approximately 27 kDa in HEK293 cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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