

## Datasheet: VMA00913

<b>Description:</b>	MOUSE ANTI PSMC1
<b>Specificity:</b>	PSMC1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	EF02/2E2
<b>Isotype:</b>	IgG2a
<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	▪			1/2000

**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, Rat

**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 1-440 of human PSMC1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P62191</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5700</a>    PSMC1    <a href="#">Related reagents</a></p>
<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 PSMC1 antibody</b> recognizes 26S proteasome regulatory subunit 4, also known as PRS4 and P26s4.</p> <p>PSMC1 is a ubiquitously-expressed ATPase which belongs to the triple-A family and plays an essential role in the 19S proteasome, essential for correct function of all cells. Incorrect function of the 26S proteasome, leading to an inability to degrade proteins, has been implicated in neurodegenerative diseases (<a href="#">Czub et al. 2016</a>). A role of PSMC1 in the pathogenesis of Parkinson's disease has been suggested, but appears unlikely (<a href="#">Gomez-Garre et al. 2012</a>). PSMC1 exists in a complex with PSMD2 and PSMD5, and may act as a reservoir to protect cells from harmful effects of suppression of the essential gene encoding PSMC2 (<a href="#">Nijhawan et al. 2012</a>).</p>
<b>Western Blotting</b>	Mouse anti PSMC1 detects a band of approximately 57 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: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00913">https://www.bio-rad-antibodies.com/SDS/VMA00913</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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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