

## Datasheet: VMA00917

<b>Description:</b>	MOUSE ANTI PSME1
<b>Specificity:</b>	PSME1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB02/4C4
<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
Immunoprecipitation	▪			
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	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 1-249 of human PSME1

**External Database  
Links**

**UniProt:**

[Q06323](#)   [Related reagents](#)

**Entrez Gene:**

[5720](#) PSME1   [Related reagents](#)

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**Synonyms**

IFI5111

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**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

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**Specificity**

**Mouse anti PSME1 antibody** recognizes proteasome activator complex subunit 1, also known as REG-alpha, IGUP I-5111, and PA28a.

PSME1 encodes a subunit of the proteinase system, required for efficient processing of antigens and for assembly of the immunoproteasome ([Vigneron and Van den Eynde 2014](#)). Antigen presenting cells and many other cell types express PSME1 under the control of interferon gamma. PSME1 is involved with immune defense against cancer, by generating tumor antigens presented by MHC class I molecules. High expression of PSME1 is associated with poor metastasis-free survival in patients with soft tissue leiomyosarcoma, and has been suggested as a prognostic biomarker for this cancer type ([Lou et al. 2016](#)), and also esophageal squamous cell carcinoma ([Zhang et al. 2011](#)) and prostate cancer ([Sanchez-Martin et al. 2013](#)).

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**Western Blotting**

Mouse anti PSME1 detects a band of approximately 31 kDa in MCF-7 cell lysates

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**Storage**

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

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00917>  
Antibody (10040)

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**Regulatory**

For research purposes only

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## 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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