

Datasheet: VMA00917

BATCH NUMBER 100005656

Description:	MOUSE ANTI PSME1
Specificity:	PSME1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB02/4C4
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
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
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<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
Synonyms	IFI5111
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti PSME1 antibody recognizes proteasome activator complex subunit 1, also known as REG-alpha, IGUP I-5111, and PA28a.</p> <p>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).</p>
Western Blotting	Mouse anti PSME1 detects a band of approximately 31 kDa in MCF-7 cell lysates
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00917 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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://www.bio-rad-antibodies.com/datasheets)

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