

Datasheet: VMA00859

**BATCH NUMBER 100004558**

<b>Description:</b>	MOUSE ANTI PSMD10
<b>Specificity:</b>	PSMD10
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB03/4A8
<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.

<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 1-226 of human PSMD10

**External Database  
Links**

**UniProt:**

[O75832](#)   [Related reagents](#)

**Entrez Gene:**

[5716](#)   PSMD10   [Related reagents](#)

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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 PSMD10 antibody** recognizes 26S proteasome non-ATPase regulatory subunit 10, also known as gankyrin, p28(GANK).

PSMD10 is one of the nonATPase subunits of the regulatory complex of the 26S proteasome. PSMD10 facilitates degradation of RB1 and TP53, controlling the balance between cell cycle progression and apoptosis ([Luo et al. 2016](#)). It functions as an oncoprotein in the liver, is overexpressed in hepatocellular carcinoma (HCC), and is overexpressed in prostate tumors ([Kim et al. 2017](#)). In HCC, PSMD10 promotes autophagy in response to environmental stressors to increase cancer progression ([Luo et al. 2016](#)). Dysregulation of PSMD10 promotes tumor progression, cell proliferation and metastasis. PSMD10 has been identified as a potential therapeutic target for certain cancer types ([Liu et al. 2018](#))

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**Western Blotting**   Mouse anti PSMD10 antibody detects a band of approximately 23 kDa in HEK293 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/VMA00859>  
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](#)

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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](http://bio-rad-antibodies.com/datasheets)

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