

Datasheet: VMA00929

BATCH NUMBER 100005650

Description:	MOUSE ANTI PSMB10
Specificity:	PSMB10
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/4E9
Isotype:	IgG2b
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
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 40-273 of human PSMB10

**External Database
Links**

UniProt:

[P40306](#) [Related reagents](#)

Entrez Gene:

[5699](#) PSMB10 [Related reagents](#)

Synonyms

LMP10, MECL1

Fusion Partners

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

Specificity

Mouse anti PSMB10 antibody recognizes proteasome subunit beta type-10, also known as LMP10 and MECL1.

PSMB10 is a catalytic subunit of the 26S proteasome complex, which is important for protein degradation and for generation of peptides that bind to MHC molecules ([Wu et al. 2006](#)). PSMB10 forms part of the antigen-presenting machinery, and is regulated by interferon gamma ([Ayers et al. 2017](#)). The importance of PSMB10 in cardiovascular disease is being dissected, with roles of PSMB10 suggested in hypertensive retinopathy ([Wang et al. 2018](#)), hypertensive atrial fibrillation ([Li et al. 2018](#)) and abdominal aortic aneurysm ([Butt et al. 2016](#)).

Western Blotting

Mouse anti PSMB10 detects a band of approximately 26 kDa in Raji 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/VMA00929>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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