

## Datasheet: VMA00480

<b>Description:</b>	MOUSE ANTI PSMB7
<b>Specificity:</b>	PSMB7
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Monoclonal
<b>Clone:</b>	4G9
<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

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant on sample type.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Recombinant protein fragment corresponding to amino acids 58-277 of human PSMB7 produced in <i>E. Coli</i>
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q99436</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b>

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<b>Synonyms</b>	Z
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<b>Specificity</b>	<p><b>Mouse anti Human PSMB7 antibody</b> recognizes PSMB7 also known as proteasome subunit beta type-7, macropain chain Z, multicatalytic endopeptidase complex chain Z, proteasome catalytic subunit 2, proteasome subunit Z or proteasome subunit alpha.</p> <p>The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. The encoded protein is a member of the proteasome B-type family, also known as the T1B family, and is a 20S core beta subunit in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon, and proteolytic processing is required to generate a mature subunit. A pseudogene of PSMB7 is located on the long arm of chromosome 14 (provided by RefSeq, Jul 2012).</p> <p>Mouse anti Human PSMB7 antibody detects a band of 28 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
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<b>Western Blotting</b>	Anti PSMB7 detects a band of approximately 28 kDa in MCF7 cell lysate
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<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
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<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
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<b>Guarantee</b>	As supplied, 12 months from date of despatch.
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<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: Antibody (10048): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</a>
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<b>Regulatory</b>	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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