Datasheet: VMA00470

Description:	MOUSE ANTI PSMB9
Specificity:	PSMB9
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	2B6
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
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.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin
50% Glycerol

Immunogen

Recombinant protein fragment corresponding to amino acids 21-219 of human PSMB9 produced in *E. Coli*

External Database Links

UniProt:
P28065 Related reagents

Entrez Gene:

5698 PSMB9 Related reagents

Synonyms	LMP2, PSMB6i, RING12
Specificity	**Mouse anti Human PSMB9 antibody** recognizes the proteasome subunit beta type-9, also known as large multifunctional peptidase 2, low molecular mass protein 2, macropain chain 7, multicatalytic endopeptidase complex chain 7, proteasome chain 7, or proteasome subunit beta-1i. 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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB9 gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. PSMB9 is located in the class II region of the MHC (major histocompatibility complex). Expression of PSMB9 is induced by gamma interferon and PSMB9 product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit (provided by RefSeq, Mar 2010). Mouse anti Human PSMB9 antibody detects a band of 23 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.
Western Blotting	Anti PSMB9 detects a band of approximately 23 kDa in HEK293 cell lysate
Instructions For Use	Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20^{o}C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf
Regulatory	For research purposes only

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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