

Datasheet: VMA00953

Description:	MOUSE ANTI PSMA1
Specificity:	PSMA1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/1C10
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

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

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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 1-263 of human PSMA1
External Database Links	<p>UniProt: P25786 Related reagents</p> <p>Entrez Gene: 5682 PSMA1 Related reagents</p>
Synonyms	HC2, NU, PROS30, PSC2
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	Mouse anti PSMA1 antibody recognizes proteasome subunit alpha type-1, also known as HC2, PROS30, PSC2. PSMA1 is one of the 17 essential subunits of the 20S proteasome, a complex which has critical roles in regulating homeostasis by degrading targeted proteins (Latham et al. 2014). The proteasome pathway is closely linked to cell cycle progression and apoptosis, providing a link to cancer. Expression of PSMA1 has been found to be reduced in tissue interstitial fluid in hepatocellular carcinoma compared with normal interstitial fluid of adjacent nontumor tissues (Qin et al. 2017). However, PSMA1 overexpression has been identified in colorectal cancer and breast cancer (Yang et al. 2017).
Western Blotting	Mouse anti PSMA1 detects a band of approximately 29 kDa in Jurkat 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/VMA00953 Antibody (10040)
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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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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