

Datasheet: VMA00953

BATCH NUMBER 100005826

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	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-263 of human PSMA1

External Database Links

UniProt:
[P25786](#) [Related reagents](#)

Entrez Gene:
[5682](#) PSMA1 [Related reagents](#)

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](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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Printed on 13 Aug 2023

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