

Datasheet: VMA00821

Description:	MOUSE ANTI PSMA7
Specificity:	PSMA7
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/4D5
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	<p>Reacts with: Mouse</p> <p>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.</p>
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 1-248 of human PSMA7
External Database Links	<p>UniProt: O14818 Related reagents</p> <p>Entrez Gene: 5688 PSMA7 Related reagents</p>
Synonyms	HSPC
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti PSMA7 antibody recognizes proteasome subunit alpha type-7, also known as XAPC7 and HSPC.</p> <p>PSMA7 is a multifunctional protein which forms a subunit of the 20S proteasome core complex, playing a role in degradation of proteins through the ubiquitin-proteasome pathway (Xia et al. 2019). The gene encoding PSMA7 is involved with inflammation and immunity, and is associated with major depressive disorder and reduction of patient responses to some drugs. It has also been identified as a biomarker for colorectal cancer and inflammatory bowel disease (IBD) (Zheng et al. 2017). PSMA7 is involved with the development and progression of several types of malignancy, and interacts with several proteins involved in tumorigenesis including HIF1-alpha (Xia et al. 2019). In colorectal cancer, PSMA7 forms a complex with NOD1 which may promote cancer progression, and PSMA7 has been suggested as a potential target for tumors that are caused by NOD1 dysfunction (Yang et al. 2013).</p>
Western Blotting	Mouse anti PSMA7 antibody detects a band of approximately 27 kDa in HEK293 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/VMA00821 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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