

Datasheet: MCA2885

Description:	MOUSE ANTI PROSTATE SPECIFIC MEMBRANE ANTIGEN
Specificity:	PROSTATE SPECIFIC MEMBRANE ANTIGEN
Other names:	GCP II
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	GCP-04
Isotype:	IgG1
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Pig

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	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant fragment corresponding to amino acids 44-750 of human GCPII.
External Database Links	<p>UniProt: Q04609 Related reagents</p> <p>Entrez Gene: 2346 FOLH1 Related reagents</p>
Synonyms	FOLH, NAALAD1, PSM, PSMA
RRID	AB_2106316
Specificity	<p>Mouse anti prostate specific Membrane Antigen antibody, clone GCP-04 recognises amino acids 100-104 of the extracellular domain of prostate specific membrane antigen (PSMA), otherwise known as GCPII (glutamate carboxypeptidase II), a 95-110 kDa type II transmembrane glycoprotein and member of the peptidase M28 family.</p> <p>Nomenclature for GCPII is dependent upon tissue specificity. PSMA is assigned to GCPII of prostate origin which is up-regulated in prostate cancer and a reliable diagnostic marker. Folate hydrolase (FOLH1) describes GCPII in the intestine and is required for folate uptake, whilst NAALADase refers to GCPII expressed in the central nervous system, which acts to cleave N-acetylaspartylglutamate (NAAG) to release glutamate, implicated in pathological conditions including Alzheimer's and Huntington's disease.</p>
Histology Positive Control Tissue	Human prostate, kidney or spinal cord.
References	<ol style="list-style-type: none"> 1. Rovenská, M. <i>et al.</i> (2008) Tissue expression and enzymologic characterization of human prostate specific membrane antigen and its rat and pig orthologs. Prostate. 68 (2): 171-82. 2. Barinka, C. <i>et al.</i> (2004) Identification of the N-glycosylation sites on glutamate carboxypeptidase II necessary for proteolytic activity. Protein Sci. 13 (6): 1627-35.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2885 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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](https://www.bio-rad-antibodies.com/datasheets)
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