

## Datasheet: MCA70

<b>Description:</b>	MOUSE ANTI BOVINE MBP (aa129-138)
<b>Specificity:</b>	MBP (aa129-138)
<b>Other names:</b>	MYELIN BASIC PROTEIN
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	1
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	2 ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/10
Immunohistology - Paraffin			▪	
ELISA	▪			1/200 - 1/1000
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.

### Target Species

Bovine

### Species Cross Reactivity

Reacts with: Rat, Human

**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

Tissue Culture Supernatant - liquid

### Preparation

Tissue Culture Supernatant containing 0.1M Tris/HCl pH7.4 and 5-10% foetal calf serum

<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Bovine Myelin Basic Protein (MBP).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P02687</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">618684</a>    MBP    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2140358
<b>Fusion Partners</b>	Spleen cells from immunised NIH mice were fused with cells of the NS0 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Bovine MBP (aa129-138) antibody, clone 1</b> recognizes myelin basic protein (MBP). Clone 1 is reactive with an epitope in the 129-138 region of the human MBP molecule. The numbering of MBP residues is that as described by Martenson Martenson, R. E., 1984.</p> <p>Clone 1 (129-138) has been reported as being suitable for Western blotting.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Groome, N. <i>et al.</i> (1985) Preparation and properties of monoclonal antibodies to myelin basic protein and its peptides. <a href="#">Neurochem Int. 7 (2): 309-17.</a></li> <li>Martenson, R. E. (1984) Experimental allergic encephalomyelitis. A useful model for multiple sclerosis. In Alvord, E. C. <i>et al.</i> (Eds).Wiley, New York, pp273-289.</li> <li>Groome, N.P. <i>et al.</i> (1986) Region-specific immunoassays for human myelin basic protein. <a href="#">J Neuroimmunol. 12 (4): 253-64.</a></li> <li>Marignier, R. <i>et al.</i> (2010) Oligodendrocytes are damaged by neuromyelitis optica immunoglobulin G via astrocyte injury. <a href="#">Brain. 133 (9): 2578-91.</a></li> <li>Brunner, C. <i>et al.</i> (1989) Differential ultrastructural localization of myelin basic protein, myelin/oligodendroglial glycoprotein, and 2',3'-cyclic nucleotide 3'-phosphodiesterase in the CNS of adult rats. <a href="#">J Neurochem. 52: 296-304.</a></li> <li>Jatana, M. <i>et al.</i> (2006) Combination of systemic hypothermia and N-acetylcysteine attenuates hypoxic-ischemic brain injury in neonatal rats. <a href="#">Pediatr Res. 59: 684-9.</a></li> <li>Chujor, C.S. <i>et al.</i> (1991) Serum antibodies against peripheral nervous system antigens in leprosy. <a href="#">Int J Lepr Other Mycobact Dis. 59: 590-7.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10336 available at:  
10336: <https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf>

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Human Anti Mouse IgG2a (HCA037...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

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)  
'M389726:210806'

Printed on 21 Mar 2022

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)