

## Datasheet: MCA686S

**BATCH NUMBER 167665**

<b>Description:</b>	MOUSE ANTI HUMAN MBP (aa84-89)
<b>Specificity:</b>	MBP (aa84-89)
<b>Other names:</b>	MYELIN BASIC PROTEIN
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	22
<b>Isotype:</b>	IgG2b
<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	▪			
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Human myelin basic protein.

### External Database Links

**UniProt:**  
[P02686](#)    [Related reagents](#)

**Entrez Gene:**

[4155](#) MBP [Related reagents](#)

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<b>RRID</b>	AB_325006
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<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the mouse SP2/0 myeloma cell line.
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<b>Specificity</b>	<b>Mouse anti MBP antibody, clone 22</b> recognizes an epitope between amino acids 84 and 89 of human myelin basic protein, also known as MBP, Myelin A1 protein or Myelin membrane encephalitogenic protein. MBP is a 304 amino acid ~33 kDa abundant component of the myelin membrane. There are 6 potential isoforms of MBP generated by alternative splicing, 4 of which lack the N-terminal region containing the immunogen sequence. Mouse anti MBP antibody, clone 22 is expected to recognize isoforms 1 and 2 ( <a href="#">UniProt: P02686</a> ). The N-terminal region of MBP is highly conserved and Mouse anti MBP antibody, clone 22 is expected to be broadly species cross reactive for isoforms maintaining the N-terminal region. Mouse anti MBP antibody, clone 22 has been reported as suitable for use in western blotting ( <a href="#">Chignola et al. 2000</a> ).
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<b>Histology Positive Control Tissue</b>	Brain
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<b>References</b>	<ol style="list-style-type: none"><li>1. Martenson, R. E. (1984) Experimental allergic encephalomyelitis. A useful model of multiple sclerosis. Eds Alvord, Kies and Suckling pp 511-521. Alan Liss N.Y.</li><li>2. Groome, N. <i>et al.</i> (1988) New monoclonal antibodies reactive with defined sequential epitopes in human myelin basic protein. <a href="#">J Neuroimmunol. 19 (4): 305-15.</a></li><li>3. Diemel, L.T. <i>et al.</i> (2003) Role for TGF-beta1, FGF-2 and PDGF-AA in a myelination of CNS aggregate cultures enriched with macrophages. <a href="#">J Neurosci Res. 74 (6): 858-67.</a></li><li>4. Harrower, T.P. <i>et al.</i> (2006) Long-term survival and integration of porcine expanded neural precursor cell grafts in a rat model of Parkinson's disease. <a href="#">Exp Neurol. 197 (1): 56-69.</a></li><li>5. Liao, M.C. <i>et al.</i> (2009) Degradation of amyloid beta protein by purified myelin basic protein. <a href="#">J Biol Chem. 284: 28917-25.</a></li></ol>
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<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>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10055 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA686S">https://www.bio-rad-antibodies.com/SDS/MCA686S</a> 10055
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<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>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

<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>
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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://bio-rad-antibodies.com/datasheets)  
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