

## Datasheet: MCA685S

**BATCH NUMBER 160584**

<b>Description:</b>	MOUSE ANTI HUMAN MBP (aa67-74)
<b>Specificity:</b>	MBP (aa67-74)
<b>Other names:</b>	MYELIN BASIC PROTEIN
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	26
<b>Isotype:</b>	IgG1
<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>Preparation</b>	Tissue Culture Supernatant containing 0.1M Tris/HCl and foetal calf serum.
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Human myelin basic protein.
<b>External Database Links</b>	<b>UniProt:</b>

[P02686](#)   [Related reagents](#)

**Entrez Gene:**

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

---

<b>RRID</b>	AB_325009
-------------	-----------

---

<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the mouse SP2/0 myeloma cell line.
------------------------	--

---

<b>Specificity</b>	<b>Mouse anti MBP antibody, clone 26</b> recognizes an epitope between amino acids 67 and 74 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 26 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 26 is expected to be broadly species cross reactive for isoforms maintaining the N-terminal region.
--------------------	--

---

<b>References</b>	<ol style="list-style-type: none"><li>1. 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>2. No authors listed. (1984) Experimental allergic encephalomyelitis, a useful model for multiple sclerosis. A satellite conference of the International Society of Neurochemists. Seattle, Washington, July 16-19, 1983. <a href="#">Prog Clin Biol Res. 146: 1-554.</a></li><li>3. Sanz-Rodriguez, M. <i>et al.</i> (2018) R-Ras1 and R-Ras2 Are Essential for Oligodendrocyte Differentiation and Survival for Correct Myelination in the Central Nervous System. <a href="#">J Neurosci. 38 (22): 5096-110.</a></li><li>4. Alcover-Sanchez, B. <i>et al.</i> (2021) Absence of R-Ras1 and R-Ras2 causes mitochondrial alterations that trigger axonal degeneration in a hypomyelinating disease model. <a href="#">Glia. 69 (3): 619-37.</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
------------------	---------------------------------

---

<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10053 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA685S">https://www.bio-rad-antibodies.com/SDS/MCA685S</a> 10053
--------------------------------------	---

---

<b>Regulatory</b>	For research purposes only
-------------------	----------------------------

---

## Related Products

## Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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)

'M389719:210806'

Printed on 18 Jan 2024

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)