

Datasheet: MCA685S

Description:	MOUSE ANTI HUMAN MBP (aa67-74)
Specificity:	MBP (aa67-74)
Other names:	MYELIN BASIC PROTEIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	26
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Product Form	Tissue Culture Supernatant - liquid
Preparation	Tissue Culture Supernatant containing 0.1M Tris/HCl and foetal calf serum.
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Immunogen	Human myelin basic protein.

External Database Links

UniProt:
[P02686](https://www.uniprot.org/entry/P02686) [Related reagents](#)

Entrez Gene:

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

RRID	AB_325009
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Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse SP2/0 myeloma cell line.
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Specificity	Mouse anti MBP antibody, clone 26 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 (UniProt: P02686). 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.
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References	<ol style="list-style-type: none">1. Groome, N. <i>et al.</i> (1988) New monoclonal antibodies reactive with defined sequential epitopes in human myelin basic protein. J Neuroimmunol. 19 (4): 305-15.2. 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. Prog Clin Biol Res. 146: 1-554.3. 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. J Neurosci. 38 (22): 5096-110.4. 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. Glia. 69 (3): 619-37.
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Storage	<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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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10053 available at: https://www.bio-rad-antibodies.com/SDS/MCA685S 10053
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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
Goat Anti Mouse IgG (STAR77...)	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
'M418636:230427'

Printed on 18 Jan 2024