

Datasheet: MCA1577

Description:	MOUSE ANTI MBP (pThr98)
Specificity:	MBP (pThr98)
Other names:	MYELIN BASIC PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	98P/12
Isotype:	IgG2a
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			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting (1)	■			

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.

(1)For the detection of phosphoproteins, threonine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Synthetic peptide from human myelin basic protein sequence, phosphorylated on threonine 98 with the sequence FFKNIVTPR(pT)PPPSQ GK.

**External Database
Links**

UniProt:

[P02686](#)

[Related reagents](#)

Entrez Gene:

[4155](#)

MBP

[Related reagents](#)

Specificity

Mouse anti MBP (pThr98) antibody, clone 98P/12 recognizes myelin basic protein (MBP), also known as myelin A1 protein and myelin membrane encephalitogenic protein, when phosphorylated at threonine 98. The numbering of the threonine residue refers to UniProt entry : [P02686-5](#). Myelin basic protein Isoform 5, a truncated form of MBP lacking the N-terminal residues. The equivalent threonine in the canonical isoform 1 is thr232.

References

1. Yon, M. *et al.* (1995) Preparation of a novel monoclonal antibody specific for myelin basic protein phosphorylated on Thr98. [J Neuroimmunol. 58 \(2\): 121-9.](#)
2. Yon, M. *et al.* (1996) Identification of a mitogen-activated protein kinase site in human myelin basic protein *in situ*. [J Neuroimmunol. 65 \(1\): 55-9.](#)
3. DeBruin, L.S. *et al.* (2005) Developmental partitioning of myelin basic protein into membrane microdomains. [J Neurosci Res. 80: 211-25.](#)
4. DeBruin, L.S. *et al.* (2006) Partitioning of myelin basic protein into membrane microdomains in a spontaneously demyelinating mouse model for multiple sclerosis. [Biochem Cell Biol. 84: 993-1005.](#)
5. Boggs, J.M. and Wang, H. (2004) Co-clustering of galactosylceramide and membrane proteins in oligodendrocyte membranes on interaction with polyvalent carbohydrate and prevention by an intact cytoskeleton. [J Neurosci Res. 76: 342-55.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC

Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

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

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
----------------------------------	---	------------------	---	---------------	---

'M293946:160914'

Printed on 21 Jun 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)