

Datasheet: MCA409S

BATCH NUMBER 151723B

Description:	RAT ANTI MBP (aa82-87)
Specificity:	MBP (aa82-87)
Other names:	MYELIN BASIC PROTEIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	12
Isotype:	IgG2a
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	▪			
Immunofluorescence	▪			
Radioimmunoassays	▪			

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: Mouse, Rabbit, Rat, Guinea Pig, Sheep, Human, Chicken, Pig
Based on sequence similarity, is expected to react with: Mammals

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
Buffer Solution	0.1M TRIS
Preservative Stabilisers	0.1% Sodium Azide
Immunogen	Bovine MBP.
External Database Links	<p>UniProt: P02687 Related reagents</p> <p>Entrez Gene: 618684 MBP Related reagents</p>
RRID	AB_325004
Fusion Partners	Spleen cells from an immunised outbred rat were fused with cells of the mouse NS0 myeloma cell line.
Specificity	<p>Rat anti MBP antibody, clone 12 recognizes myelin basic protein from a wide range of species. Rat anti MBP antibody, clone 12 reacts weakly with peptides ending in the Phe 91 where the 91-92 Phe-Phe bond is broken. Synthetic peptide 82-99 reacts very well with Rat anti MBP antibody, clone 12, as does intact MBP. Further epitope analysis indicates binding to a region defined by amino acids 82-87 (DENPVV).</p> <p>Rat anti MBP antibody, clone 12 has been reported as being suitable for use in western blotting (Glynn <i>et al.</i> 1987).</p>
References	<ol style="list-style-type: none"> Groome, N.P. <i>et al.</i> (1986) Region-specific immunoassays for human myelin basic protein. J Neuroimmunol. 12 (4): 253-64. Glynn, P. <i>et al.</i> (1987) Basic protein dissociating from myelin membranes at physiological ionic strength and pH is cleaved into three major fragments. J Neurochem. 48 (3): 752-9. Hruby, S. <i>et al.</i> (1987) Monoclonal antibodies reactive with myelin basic protein. Mol Immunol. 24 (12): 1359-64. Homchaudhuri L <i>et al.</i> (2009) Influence of membrane surface charge and post-translational modifications to myelin basic protein on its ability to tether the Fyn-SH3 domain to a membrane <i>in vitro</i>. Biochemistry. 48 (11): 2385-93. Pohl, H.B. <i>et al.</i> (2011) Genetically induced adult oligodendrocyte cell death is associated with poor myelin clearance, reduced remyelination, and axonal damage. J Neurosci. 31 (3): 1069-80. Laursen, L.S. <i>et al.</i> (2011) Translation of myelin basic protein mRNA in oligodendrocytes is regulated by integrin activation and hnRNP-K. J Cell Biol. 192: 797-811. Relucio, J. <i>et al.</i> (2009) Laminin alters fyn regulatory mechanisms and promotes oligodendrocyte development. J Neurosci. 29: 11794-806.

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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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10451 available at: https://www.bio-rad-antibodies.com/SDS/MCA409S 10451
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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