

Datasheet: MCA70

BATCH NUMBER 159672

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|----------------------|-----------------------------------|
| Description: | MOUSE ANTI BOVINE MBP (aa129-138) |
| Specificity: | MBP (aa129-138) |
| Other names: | MYELIN BASIC PROTEIN |
| Format: | S/N |
| Product Type: | Monoclonal Antibody |
| Clone: | 1 |
| 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 | ▪ | | | 1/10 |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | 1/200 - 1/1000 |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |

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: Rat, Human

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

Preparation

Tissue Culture Supernatant containing 0.1M Tris/HCl pH7.4 and 5-10% foetal calf serum

| | |
|---------------------------------|--|
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) |
| Immunogen | Bovine Myelin Basic Protein (MBP). |
| External Database Links | <p>UniProt: P02687 Related reagents</p> <p>Entrez Gene: 618684 MBP Related reagents</p> |
| RRID | AB_2140358 |
| Fusion Partners | Spleen cells from immunised NIH mice were fused with cells of the NS0 mouse myeloma cell line. |
| Specificity | <p>Mouse anti Bovine MBP (aa129-138) antibody, clone 1 recognizes myelin basic protein (MBP). Clone 1 is reactive with an epitope in the 129-138 region of the human MBP molecule. The numbering of MBP residues is that as described by Martenson Martenson, R. E., 1984.</p> <p>Clone 1 (129-138) has been reported as being suitable for Western blotting.</p> |
| References | <ol style="list-style-type: none"> 1. Groome, N. <i>et al.</i> (1985) Preparation and properties of monoclonal antibodies to myelin basic protein and its peptides. Neurochem Int. 7 (2): 309-17. 2. Martenson, R. E. (1984) Experimental allergic encephalomyelitis. A useful model for multiple sclerosis. In Alvord, E. C. <i>et al.</i> (Eds). Wiley, New York, pp273-289. 3. Groome, N.P. <i>et al.</i> (1986) Region-specific immunoassays for human myelin basic protein. J Neuroimmunol. 12 (4): 253-64. 4. Marignier, R. <i>et al.</i> (2010) Oligodendrocytes are damaged by neuromyelitis optica immunoglobulin G via astrocyte injury. Brain. 133 (9): 2578-91. 5. Brunner, C. <i>et al.</i> (1989) Differential ultrastructural localization of myelin basic protein, myelin/oligodendroglial glycoprotein, and 2',3'-cyclic nucleotide 3'-phosphodiesterase in the CNS of adult rats. J Neurochem. 52: 296-304. 6. Jatana, M. <i>et al.</i> (2006) Combination of systemic hypothermia and N-acetylcysteine attenuates hypoxic-ischemic brain injury in neonatal rats. Pediatr Res. 59: 684-9. 7. Chujor, C.S. <i>et al.</i> (1991) Serum antibodies against peripheral nervous system antigens in leprosy. Int J Lepr Other Mycobact Dis. 59: 590-7. |
| 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> |
| Guarantee | 12 months from date of despatch |

**Health And Safety
Information**

Material Safety Datasheet documentation #10336 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA70>
10336

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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| 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 |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |

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