

Datasheet: 0300-0082

**BATCH NUMBER 166479**

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | RABBIT ANTI HUMAN MBP |
| <b>Specificity:</b>  | MBP                   |
| <b>Other names:</b>  | MYELIN BASIC PROTEIN  |
| <b>Format:</b>       | Purified              |
| <b>Product Type:</b> | Polyclonal Antibody   |
| <b>Isotype:</b>      | Polyclonal IgG        |
| <b>Quantity:</b>     | 1 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 |
|--------------------|-----|----|----------------|--------------------|
| ELISA              | ▪   |    |                | 1/100 - 1/400      |
| Western Blotting   | ▪   |    |                |                    |
| Immunofluorescence | ▪   |    |                |                    |

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 the appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Rat

**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

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Native myelin basic protein from human brain.

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## External Database Links

**UniProt:**

[P02686](#)    [Related reagents](#)

**Entrez Gene:**

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

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**RRID** AB\_2250337

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**Specificity** **Rabbit anti Human MBP antibody** recognizes human myelin basic protein (MBP), an abundant protein component of the myelin membrane and is reported to have a role in its formation and stabilisation.

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**Western Blotting** 0300-0082 detects band at 18.5 kDa on reducing SDS-PAGE against rat brain lysate.

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## References

1. Seiberlich, V. *et al.* (2015) Downregulation of the microtubule associated protein Tau impairs process outgrowth and myelin basic protein mRNA transport in oligodendrocytes. [Glia. 63 \(9\): 1621-35.](#)
  2. Krajnak, K. *et al.* (2016) Long-term daily vibration exposure alters current perception threshold (CPT) sensitivity and myelinated axons in a rat-tail model of vibration-induced injury. [J Toxicol Environ Health A. 79 \(3\): 101-11.](#)
  3. Garinis, G. *et al.* (2021) DNA damage in tissue-resident macrophages leads to age-related neurodegeneration [Res Sq. Dec 01 \[Epub ahead of print\].](#)
  4. Chaudhary, P. *et al.* (2022) Optic Nerve Head Myelin-Related Protein, GFAP, and Iba1 Alterations in Non-Human Primates With Early to Moderate Experimental Glaucoma. [Invest Ophthalmol Vis Sci. 63 \(11\): 9.](#)
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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/0300-0082>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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

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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](https://bio-rad-antibodies.com/datasheets)

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