

## Anti-Myelin Basic Protein (MBP) Antibody



### Product Details

|                    |                                                                                                                                                                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Variants | 50 µg (SKU:M-1384-50)                                                                                                                                                                                                                                                                                   |
| Conjugate          | Unconjugated                                                                                                                                                                                                                                                                                            |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                     |
| Clone              | 7G7                                                                                                                                                                                                                                                                                                     |
| Host Species       | Mouse                                                                                                                                                                                                                                                                                                   |
| Format             | IgG                                                                                                                                                                                                                                                                                                     |
| Physical State     | Lyophilized                                                                                                                                                                                                                                                                                             |
| Buffer             | Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide                                                                                                                                                                                                                            |
| Production Notes   | Protein G purified                                                                                                                                                                                                                                                                                      |
| Applications       | ICC, IHC, WB                                                                                                                                                                                                                                                                                            |
| Dilution Ranges    | WB: 1:5000-1:10000<br>IHC: 1:500-1:1000<br>ICC: 1:500-1:1000                                                                                                                                                                                                                                            |
| Species Reactivity | Bovine, Human, Rat                                                                                                                                                                                                                                                                                      |
| Immunogen          | Three peptide sequences conserved in higher vertebrate MBP protein.                                                                                                                                                                                                                                     |
| Specificity        | The specificity of this antibody has been confirmed by WB. This antibody stains bands around 21.5 kDa and 18.5 kDa. A suitable control tissue is rat spinal cord or peripheral nerve homogenate. The major isoforms of MBP run as a closely spaced double of 22 kDa and 18 kDa. Human, rat.             |
| Molecular Weight   | 21.5 kDa and 18.5 kDa                                                                                                                                                                                                                                                                                   |
| Storage            | Spin vial briefly before opening. Reconstitute with 50 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles. |

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|-------------------|--------------------------------------------------|
| UniProt ID        | <u>P02686</u>                                    |
| Country of Origin | United States                                    |
| Shipping          | 25°C (ambient)                                   |
| Expiration        | 12 months after date of receipt (unopened vial). |
| Usage Statement   | For research use only.                           |

## Product Images

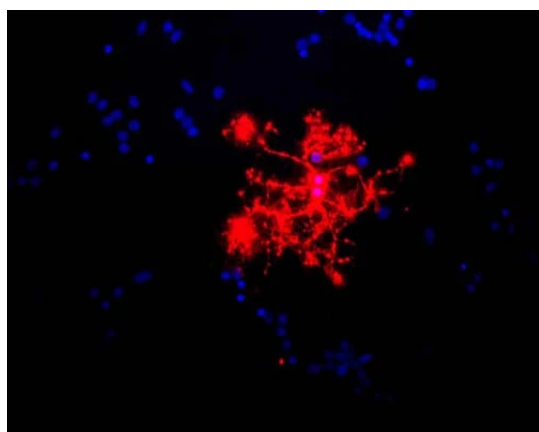
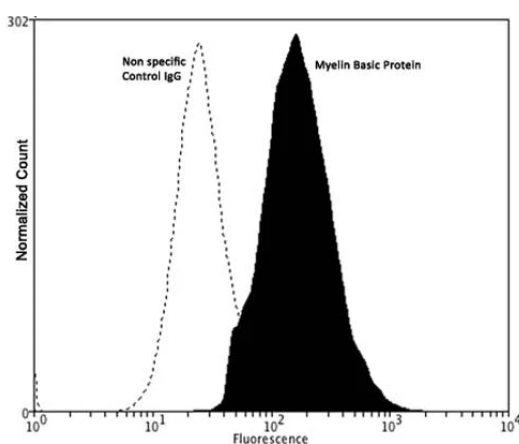
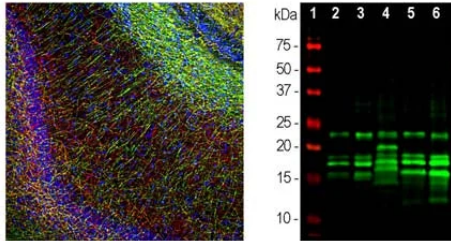


Image shows rat mixed neuron/glia cultures stained with Mouse monoclonal antibody to Myelin Basic Protein [7G7] M-1384-50 (red). Blue is a DNA stain. Note that this antibody stains an oligodendrocyte and some membrane shed from this cell. Other cells in the field include neurons, astrocytes, microglia and fibroblasts, all of which are completely negative.



Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 1% BSA, Primary antibody: Mouse Monoclonal antibody to MBP (cat # M-1384-50, 2 µg per ~10<sup>6</sup> cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-200) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo Moxiflow<sup>TM</sup> instrument and protocols. The data demonstrates specific staining of MBP expressed in human neuroblastoma SH-SY5Y cell line using cat # M-1384-50.



**Left:** Staining of rat hippocampal section with mouse antibody to myelin basic protein (MBP, 1:5,000, green) by **Immunohistochemistry**. NF-H was co-stained with R-1389-50 (1:2,000, red). The MBP antibody stains oligodendrocyte cell bodies and the myelin sheaths around axons, while the NF-H antibody labels the axons themselves. **Right: Western blot** analysis of tissue lysates using mouse antibody to MBP (1:20,000, green): [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] rat sciatic nerve, [5] mouse brain, [6] mouse spinal cord. Multiple bands between 14-22 kDa are alternate transcripts of MBP. Other bands are proteolytic fragments of the MBP protein.

**Product Page URL:** [www.antibodiesinc.com/products/anti-myelin-basic-protein-mbp-antibody-m-1384-50](http://www.antibodiesinc.com/products/anti-myelin-basic-protein-mbp-antibody-m-1384-50)



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