

## Anti-Myelin Basic Protein/MBP Antibody Picoband® APC Conjugated

Catalog Number: PA1050-APC

### About MBP

Myelin basic protein (MBP) is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the central nervous system and the peripheral nervous system, respectively. It is most abundant in hemopoietic system and contains seven exons distributed over 32-34 kb. MBP isolated from MS brain may differ in charge microheterogeneity which would affect antigenic determinants. MBP is mapped to chromosome 18q22-23. Failure in this gene expression would be correlated in the central white matter with extrapyramidal system degeneration signs. Moreover, it is a candidate autoantigen in the disease multiple sclerosis.

### Overview

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Myelin Basic Protein/MBP Antibody Picoband® APC Conjugated                                                                                                         |
| Reactive Species     | Human, Mouse, Pig, Rat                                                                                                                                                  |
| Application          | Recommended applications are based on the parent unconjugated antibody (IF, IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal                                                                                                                                                              |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .                                                            |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                                                                    |
| Host                 | Rabbit                                                                                                                                                                  |
| Uniprot ID           | P02686                                                                                                                                                                  |

### Technical Details

|                     |                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthetic peptide corresponding to a sequence at the C-terminus of human Myelin Basic Protein, identical to the related rat and mouse sequences. |
| Cross Reactivity    | No cross-reactivity with other proteins                                                                                                            |
| Isotype             | Rabbit IgG                                                                                                                                         |
| Form                | Liquid                                                                                                                                             |
| Concentration       | 0.5 mg/mL                                                                                                                                          |
| Purification        | Immunogen affinity purified.                                                                                                                       |
| Conjugate           | APC<br>Excitation Wavelength: 633-647 nm<br>Emission Wavelength: 660 nm                                                                            |
| Suggested Dilutions | Optimal dilutions should be determined by end users.                                                                                               |

## 17 Publications Citing This Product

1. PubMed ID: 10.1016/j.celrep.2015.01.037, Focal MMP-2 and MMP-9 Activity at the Blood-Brain Barrier Promotes Chemokine-Induced Leukocyte Migration

2. PubMed ID: 10.1016/j.brainresbull.2020.10.015, [Met5]-enkephalin preserves diffusion metrics in EAE mice

3. PubMed ID: 32515838, Meng FW, Jing XN, Song GH, Jie LL, Shen FF. Prox1 induces new lymphatic vessel formation and promotes nerve reconstruction in a mouse model of sciatic nerve crush injury. *J Anat.* 2020 Nov;237(5):933-940. doi: 10.1111/joa.13247. Epub 2020 Jun 9. PMID:32515838; PMCID:

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