

# Anti-Myelin Basic Protein MBP Rabbit Monoclonal Antibody

Catalog # ABO14277

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC                                                                                                                     |
| <b>Primary Accession</b> | <a href="#">P02686</a>                                                                                                      |
| <b>Host</b>              | Rabbit                                                                                                                      |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                  |
| <b>Reactivity</b>        | Human                                                                                                                       |
| <b>Clonality</b>         | Monoclonal                                                                                                                  |
| <b>Format</b>            | Liquid                                                                                                                      |
| <b>Description</b>       | Anti-Myelin Basic Protein MBP Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human. |

## Additional Information

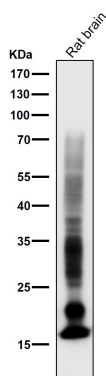
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|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 4155                                                                                                                                                                                                                      |
| <b>Other Names</b>              | Myelin basic protein, MBP, Myelin A1 protein, Myelin membrane encephalitogenic protein, MBP                                                                                                                               |
| <b>Calculated MW</b>            | 33117                                                                                                                                                                                                                     |
| <b>Application Details</b>      | WB 1:500-1:2000<br>IHC 1:50-1:200                                                                                                                                                                                         |
| <b>Subcellular Localization</b> | Myelin membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic side of myelin.                                                                                                                               |
| <b>Tissue Specificity</b>       | MBP isoforms are found in both the central and the peripheral nervous system, whereas Golli-MBP isoforms are expressed in fetal thymus, spleen and spinal cord, as well as in cell lines derived from the immune system.. |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                 |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                       |
| <b>Clone Names</b>              | Clone: IIE-13                                                                                                                                                                                                             |
| <b>Immunogen</b>                | A synthesized peptide derived from human Myelin Basic Protein                                                                                                                                                             |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                                                   |
| <b>Storage</b>                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                |

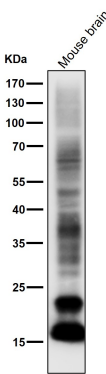
# Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | MBP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function          | The classic group of MBP isoforms (isoform 4-isoform 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T-cells and neural cells. Differential splicing events combined with optional post-translational modifications give a wide spectrum of isomers, with each of them potentially having a specialized function. Induces T-cell proliferation. |
| Cellular Location | Myelin membrane; Peripheral membrane protein; Cytoplasmic side.<br>Note=Cytoplasmic side of myelin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tissue Location   | MBP isoforms are found in both the central and the peripheral nervous system, whereas Golli-MBP isoforms are expressed in fetal thymus, spleen and spinal cord, as well as in cell lines derived from the immune system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# Images

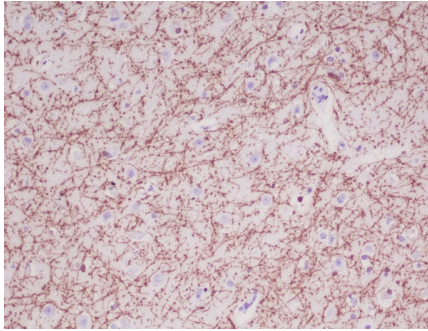
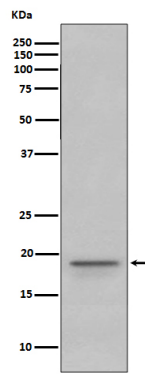


All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.

Western blot analysis of Myelin Basic Protein expression in Human fetal brain lysate.



Immunohistochemical analysis of paraffin-embedded human brain, using Myelin Basic Protein Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.