

## IHCAb™ Myelin Basic Protein (MBP) (BGT-MBP) mouse mAb

Cat #: B-IMW6589

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

### Background

The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called "Golli-MBP") that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that

### Product Information

**Applications/Dilution:** IHC-p 1:100-500, WB 1:200-1000. IF 1:50-200

**Isotype/Source:** Mouse, Monoclonal/IgG1, Kappa

**Specificity:** This antibody detects endogenous levels of human Myelin Basic Protein(MBP). Heat-induced epitope retrieval (HIER) TRIS-EDTA of pH8.0 was highly recommended as antigen repair method in paraffin section

**Subcellular Location:** Myelin membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic side of myelin.; [Isoform 3]: Nucleus . Targeted to nucleus in oligodendrocytes

**Expression:** 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

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Storage:** Store at -15°C to -25°C

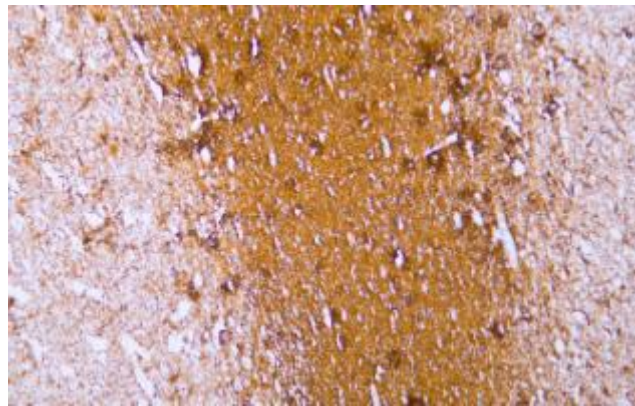


Fig.1. Human cerebrum tissue was stained with Anti-Myelin Basic Protein(MBP) Antibody

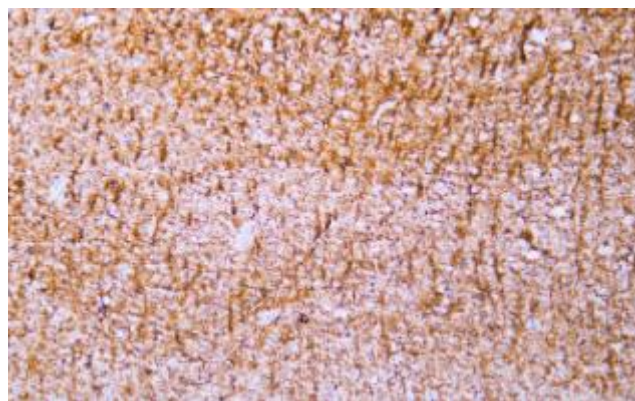


Fig.2. Human cerebrum tissue was stained with Anti-Myelin Basic Protein(MBP) Antibody

**Note:**

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.