

Myelin Basic Protein / MBP Antibody

Chicken Polyclonal Antibody Catalog # ALS15984

Specification

Myelin Basic Protein / MBP Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IHC <u>P02686</u> Human, Mouse Chicken Polyclonal 33kDa KDa

Myelin Basic Protein / MBP Antibody - Additional Information

Gene ID 4155

Other Names Myelin basic protein, MBP, Myelin A1 protein, Myelin membrane encephalitogenic protein, MBP

Target/Specificity

The peptide corresponded to a region of the MBP gene product shared between the human (NP_002376, NCBI) and mouse (NP_034907, NCBI) sequences.

Reconstitution & Storage

May be stored at 4°C. For long-term storage, aliquot and store at 4°C. Do not freeze. Aliquots are stable for at least 12 months. Sensitive to light.

Precautions

Myelin Basic Protein / MBP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Myelin Basic Protein / MBP Antibody - 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. 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.

Volume 50 μl

Myelin Basic Protein / MBP Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Myelin Basic Protein / MBP Antibody - Images



Anti-Myelin Basic Protein / MBP antibody IHC staining of human brain, cerebellum.

Myelin Basic Protein / MBP Antibody - Background

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Myelin Basic Protein / MBP Antibody - References



Carnegie P.R., et al.Biochem. J. 123:57-67(1971). Roth H.J., et al.J. Neurosci. Res. 16:227-238(1986). Kamholz J., et al.Proc. Natl. Acad. Sci. U.S.A. 83:4962-4966(1986). Roth H.J., et al.J. Neurosci. Res. 17:321-328(1987). Streicher R., et al.Biol. Chem. Hoppe-Seyler 370:503-510(1989).