

MBP monoclonal antibody, clone BDI221

Catalog # MAB4269

Size 500 ug

Specification

Product Description	Mouse monoclonal antibody raised against MBP.
Immunogen	Purified human MBP.
Host	Mouse
Reactivity	Goat, Human, Mouse, Primates, Rabbit, Rat, Sheep
Specificity	Reacts with residues 130-136 in human myelin basic protein (21.5KDa and 18.5KDa molecular forms). Recognizes primate, rabbit, sheep, goat, rat and mouse myelin basic protein.
Form	Liquid
Isotype	IgG2b
Recommend Usage	ELISA (10-20 ug/mL) Western Blot (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL) Immunohistochemistry (Frozen sections) (3-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MBP

Entrez GeneID	4155
Gene Name	MBP
Gene Alias	MGC99675
Gene Description	myelin basic protein
Omim ID	159430
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligo dendrocytes 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 the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes. [provided by RefSeq]
Other Designations	Golli-mbp OTTHUMP00000174383 OTTHUMP00000174384 OTTHUMP00000174385 OTTHUMP00000174386

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