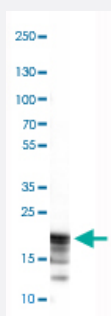


# MBP monoclonal antibody, clone CL2819

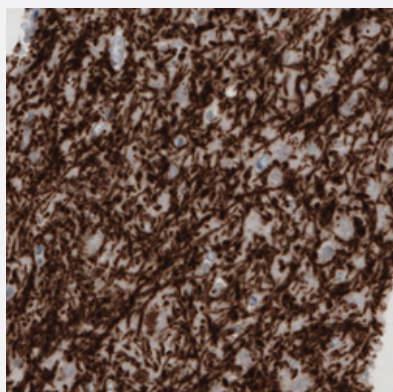
Catalog # MAB15775      Size 100 uL

## Applications



### Western Blot (Tissue lysate)

Western Blot analysis of human cerebral cortex tissue lysate with MBP monoclonal antibody, clone CL2819 (Cat # MAB15775).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with MBP monoclonal antibody, clone CL2819 (Cat # MAB15775) shows strong immunoreactivity in myelinated fibers.

## Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human MBP.
Immunogen	Recombinant protein corresponding to human MBP.
Epitope	This antibody binds to an epitope located within the peptide sequence RTPPPSQGKG as determined by overlapping synthetic peptides.
Sequence	DENPVVHFFKNVTPRTPPPSQGKGRGLSLSRFSWGAEGQRPFGYGGGRASDYKSAHKGFGKV DAQGTLSKIFKLGGDRDSRSGSPM
Host	Mouse

Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein A purification
Isotype	IgG2a
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:5000-1:10000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

Western Blot analysis of human cerebral cortex tissue lysate with MBP monoclonal antibody, clone CL2819 (Cat # MAB15775).

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## Gene Info — MBP

Entrez GeneID	<a href="#">4155</a>
Protein Accession#	<a href="#">P02686</a>
Gene Name	MBP
Gene Alias	MGC99675
Gene Description	myelin basic protein
Omim ID	<a href="#">159430</a>
Gene Ontology	<a href="#">Hyperlink</a>

## Gene Summary

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 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

## Disease

- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Dermatitis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Hepatitis B](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)
- [Schizophrenia](#)
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