Anti-MBP Antibody [clone 408CT17.4.3] (F53611)

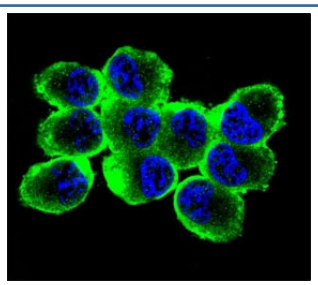
Catalog No.	Formulation	Size
F53611-0.1ML	In ascites with 0.09% sodium azide	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Ascites
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM
Clone Name	408CT17.4.3
Purity	Ascites
UniProt	P02686
Applications	Western blot: 1:5000-1:16000 Immunofluorescence: 1:10-1:50
Limitations	This anti-MBP antibody is available for research use only.



Anti-MBP antibody western blot analysis in ZR-75-1 lysate. Multiple isoforms visualized from 20~37 kDa.



Confocal immunofluorescent analysis of anti-MBP antibody with NCI-H460 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).

Description

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].

For broader research on myelin structure and MBP expression, see our Myelin Basic Protein Antibody / CNS Myelin Marker page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the anti-MBP antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Purified His-tagged protein fragment was used to produced this monoclonal anti-MBP antibody.

Storage

Aliquot the anti-MBP antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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