Datasheet

Anti-MBP Clone 1

Product Name	Anti Human MBP 1
Catalogue Number	MBP1
Clone, Isotype	MBP Clone 1, IgG2a
Format	IgG
Tested Applications	WB, IHC, ELISA, ICC

Description:
Myelin Basic Protein (MBP) is involved in the process of myelination of nerves. MBP Clone 1 recognizes an epitope in the 129-138 region of MBP, useful in clinical diagnosis to detect MBP levels.

Product Details:

Form in stock: IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

Host: Mouse

Specificity: Reacts with MBP from human, bovine and rat, recognizing epitope 129-138.

Fusion partner: Spleen cells from immunised NIH mice were fused with cells of the NS0 mouse myeloma cell line.

Histology positive control: Human brain tissue

Storage: Store at +4°C or -20°C. Avoid repeated freezing and thawing.

Shelf life: 18 months from date of dispatch.

Regulatory/ Restrictions: For research and commercial purposes.

Applications	Suggested Dilution
Western Blot	1:10 – 1:200
Immunohistochemistry	1:10
ELISA	1:200 – 1:1000
Immunocytochemistry	1:3000 [2]

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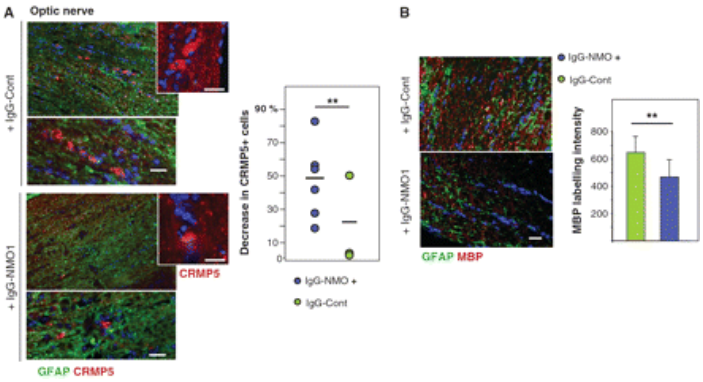
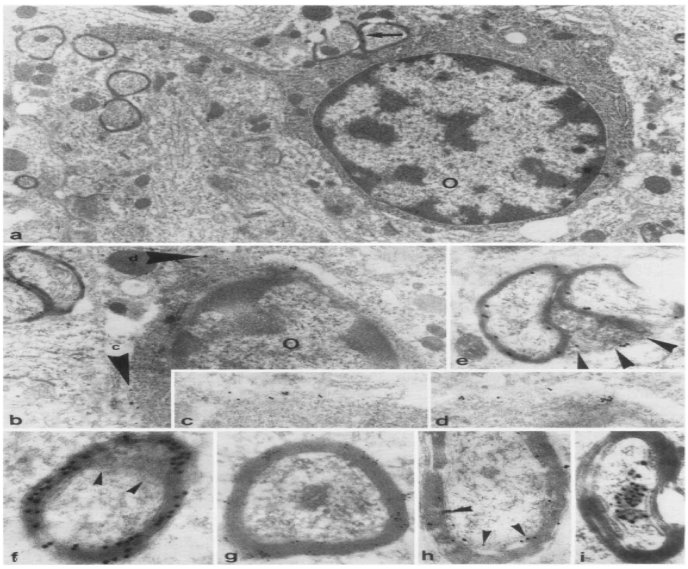
Applications:



MBP Clone 1 used to detect myelin density in the optic nerve by **IHC-P**
Image caption: (**B**) IgG^{NMO+}reduced myelin expression (MBP immunoreactivity) ($P < 0.01$).(Marignier, R et al.)



MBP Clone 1 used to detect MBP expression in myelin sheaths of adult rats by **ICC**
(Brunner, C et al.)
Dilution used: 1:3000

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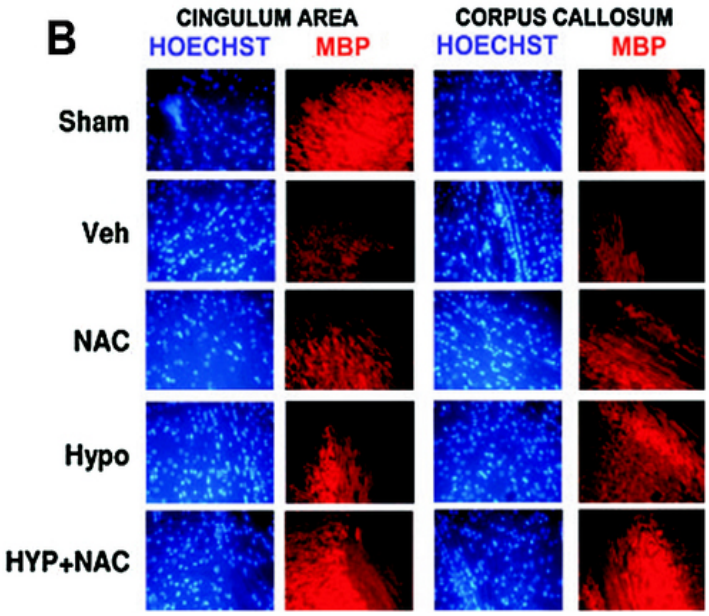

MBP Clone 1 used to detect myelin expression in neonatal rats (brain tissue) by **IHC-P**
Image caption: ...B... HYP + NAC and Sham groups are not appreciably different in PLP or MBP staining, indicating preservation of myelin expression... (Jatana, M et al.)
Dilution used: 1:200

References:

1. Marignier, R., Nicolle, A., Watrin, C., Touret, M., Cavagna, S., Varrin-Doyer, M., Cavillon, G., Rogemond, V., Confavreux, C., Honnorat, J., Giraudon, P. (2010) Oligodendrocytes are damaged by neuromyelitis optica immunoglobulin G via astrocyte injury. *Brain; 133 (9): 2578-2591.*
2. Brunner, C., Lassmann, H., Waehneldt, T.V., Matthieu, J-M. and Linington, C. (1989) Differential Ultrastructural Localization of Myelin Basic Protein, Myelin/Oligodendroglial Glycoprotein, and 2′,3′-Cyclic Nucleotide 3′-Phosphodiesterase in the CNS of Adult Rats. *Journal of Neurochemistry, 52: 296–304.*
3. Jatana, M., Singh, I., Singh, A.K., Jenkins, D. (2006) Combination of Systemic Hypothermia and N-acetylcysteine Attenuates Hypoxic-Ischemic Brain Injury in Neonatal Rats. *Nature News. Nature Publishing Group*.
4. Chujor, S.N., Regele, H., Bernheimer, H., Meeker, H.C., Levis, W.R., Schwerer, B. (1991) Serum antibodies against peripheral nervous system antigens in leprosy. *International Journal of Leprosy; 59(4):590-7.* **WB, Dilution used 1:2,000-1:8,000**
5. Groome, N.P., Harland, J., Dawkes, A. (1985) Preparation and properties of monoclonal antibodies to myelin basic protein and its peptides. *Neurochemistry International, Volume 7, Issue 2, Pages 309-317, ISSN 0197-0186.* **ELISA, Dilution used 1:1000**
6. Groome, N.P., Dawkes, A., Gales, M., Hruby, S., Alvord, E.C. Jr. (1986) Region-specific immunoassays for human myelin basic protein. *Journal of Neuroimmunology; 12(4):253-64.* **ELISA**

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