Datasheet

Anti-MBP Clone 98/P12

Product Name	Anti MBP (pThr98) 98/P12
Catalogue Number	98/P12
Clone, Isotype	98P/12, IgG2a
Format	IgG
Tested Applications	WB, ICC, ELISA

Description:
The phosphorylation of myelin basic protein (MBP) has been shown to decrease the ability of MBP to aggregate lipid vesicles and consequently destabilising the compact structure of myelin, a destruction that has been observed in demyelinating diseases such as Multiple Sclerosis. (Yon, M et al. 1995) Clone 98/P12 is a useful detector of phosphorylated MBP by binding to Thr^{98} of human MBP in the phosphorylated state.

Product Details:

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

Host: Mouse

Specificity: Synthetic peptide corresponding to human MBP when phosphorylated at threonine 98.

Human Histology positive control: Brain tissue

Fusion partner: Spleen cells from immunised Balb/c mice were fused with the mouse SP2/0 myeloma cell line.

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	1:1000-1:2000 [1-4]
Immunocytochemistry	1:400 [2]
ELISA	Assay dependent

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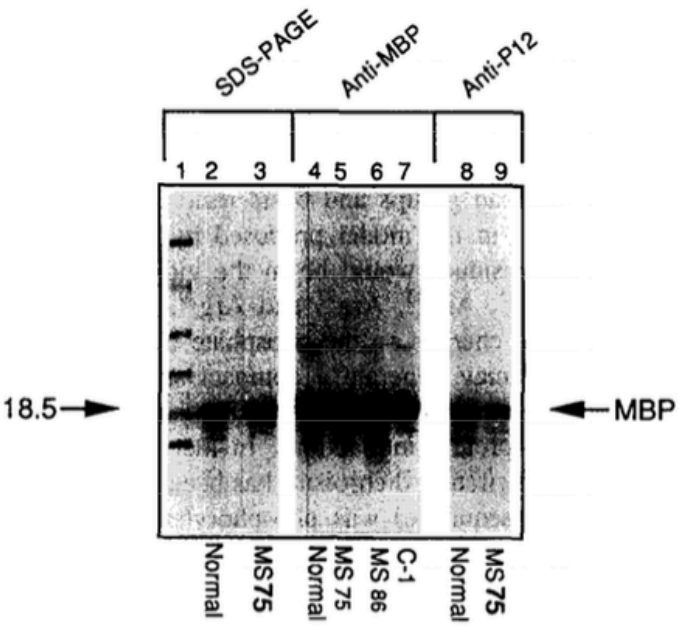
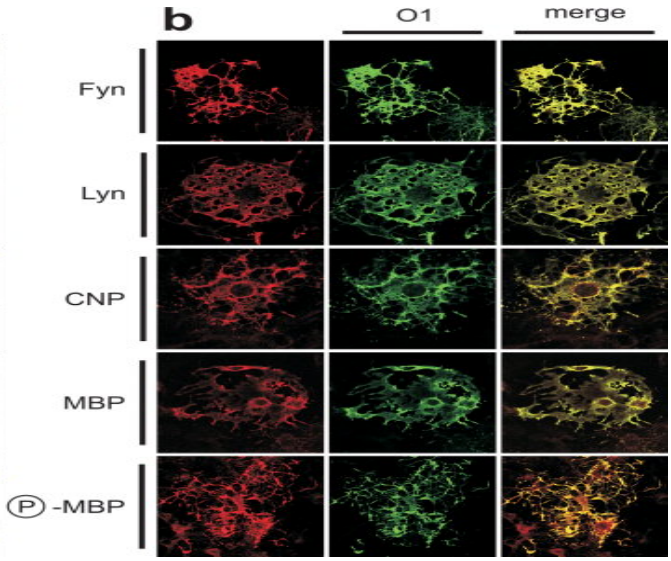
Applications:



Clone 98/P12 used to detect MBP in brain tissue of normal and MS patients by **Western Blot**
Image caption: ...Western Blot reacted with mAb P12. Lane 8, normal; lane 9, MS 75. (Yon, M et al. 1996)
Dilution used: 1:2000



Clone 98/P12 used to stain OL cells and detect MBP levels by **ICC**
Image caption: Colocalization of various lipids and proteins in the developing oligodendrocyte...
b: Mature oligodendrocytes fixed at 15 DIV.
(DeBruin, L.S et al. 2005)
Dilution used: 1:400

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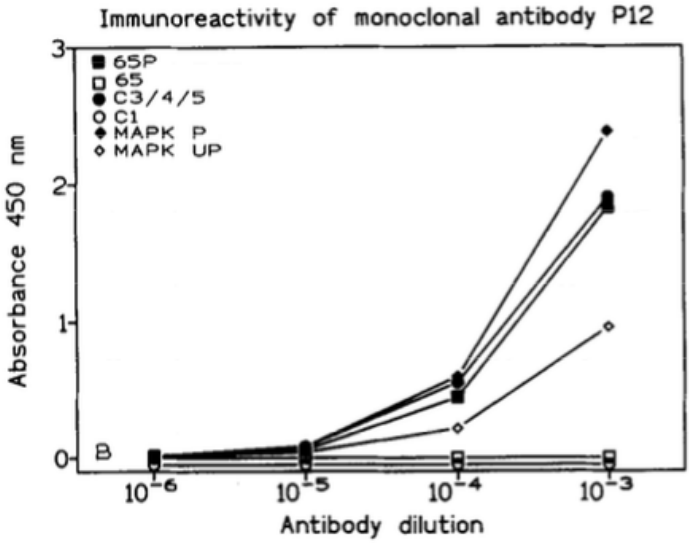

ELISA using clone 98/P12 to test its immunoreactivity against synthetic peptides and proteins
(Yon, M et al. 1995)

References:

1. Yon, M., Ackerley, C.A., Mastronardi, F.G., Groome, N.P., Moscarello, M.A. (1996) Identification of a mitogen-activated protein kinase site in human myelin basic protein in situ. *Journal of Neuroimmunology, Volume 65, Issue 1, Pages 55-59, ISSN 0165-5728.*
2. DeBruin, L.S., Haines, J.D., Wellhauser, L.A., Radeva, G., Schonmann, V., Bienzle, D. and Harauz, G. (2005) Developmental partitioning of myelin basic protein into membrane microdomains. *Journal of Neuroscience Research, 80: 211–225.* **Also uses WB, Dilution 1:2000**
3. Debruin, L.S., Haines, J.D., Bienzle, D., Harauz, G. (2006) Partitioning of myelin basic protein into membrane microdomains in a spontaneously demyelinating mouse model for multiple sclerosis. *Biochemistry and Cell Biology 84.6, 993-1005.* **WB, Dilution used 1:1000**
4. Atkins, C.M., Yon, M., Groome, N.P., Sweatt, J.D. (1999) Regulation of Myelin Basic Protein Phosphorylation by Mitogen-Activated Protein Kinase During Increased Action Potential Firing in the Hippocampus. *Journal of Neurochemistry, 73: 1090–1097.* **WB, Dilution used 1:2000**
5. Yon, M., White, P. Goome, N.P. (1995) Preparation of a novel monoclonal antibody specific for myelin basic protein phosphorylated on Thr98. *Journal of Neuroimmunology, Volume 58, Issue 2, Pages 121-129, ISSN 0165-5728.* **ELISA**

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