Datasheet

Anti-MBP Clone 2

Product Name	Anti Human MBP 2
Catalogue Number	MBP2
Clone, Isotype	MBP 2, IgG1
Format	IgG
Tested Applications	WB, IHC, IP, IF, ELISA

Description:
Myelin Basic Protein (MBP) is involved in the process of myelination of nerves in the nervous system. MBP Clone 2 recognizes an epitope in the 119-131 region of MBP, useful in clinical diagnosis to detect MBP levels in human, rat and cow MBP.

Product Details:

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

Host: Mouse

Specificity: Recognizes bovine BMP, in the region of residues 119-131 (GAEGQRPGFGYGG).

Fusion partner: Spleen cells from immunised NIH/OIa mice were fused with cells of the NS0 mouse 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	1:10 – 1:200
Immunohistochemistry	1:75-1:500 [2,7,8,9,10,11]
Immunoprecipitation	10-20 µL/ 100-500 µg
Immunofluorescence	1:10 – 1:200
ELISA	1:1000 [3]

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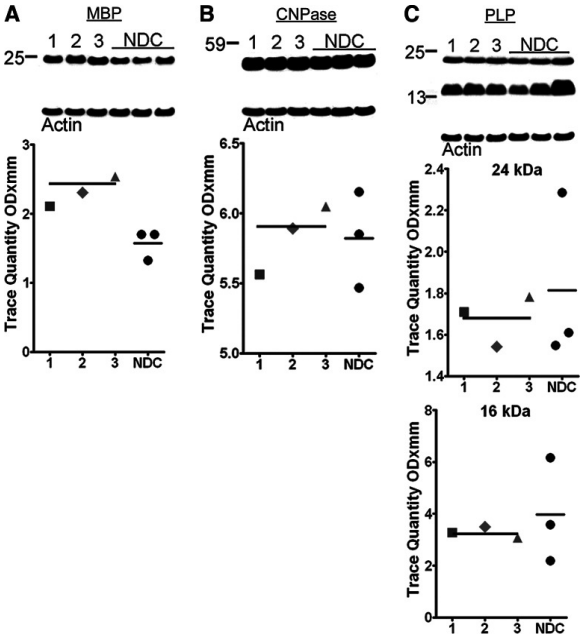
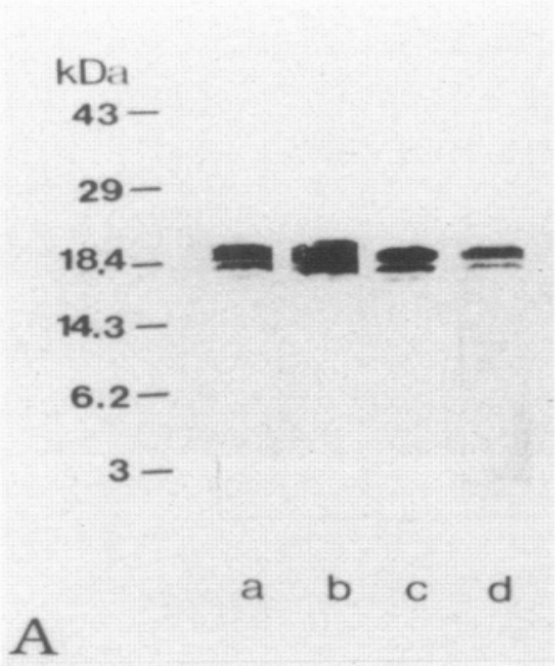
Applications:



Western Blot of MBP Clone 2 used to detect MBP in a neurochemical profile study of dementia patients
Image caption: Western blots from white matter homogenates of myelin-associated proteins. The mean myelin basic protein (MBP) (**A**) levels were discretely elevated in the dementia pugilistica (DP) cases when compared with the non-demented controls (NDC). (Kokjohn, TA et al.)



Western Blot of MBP Clone 2 used in a comparative study between anti-MBP clones and anti-EP
Image caption: Figure 2. The specificity of EP antiserum examined by Western blot(A) and immunoabsorption tests(B to1).A: Lane a, anti-whole hMBP antibody; lane b, clone 14, lane c, clone 2; lane d, EP antiserum. All antibodies detected a major 18.5-kd band and a weaker 17.2-kd band in extracts of normal human brain homogenates. (Matsuo, A et al.)

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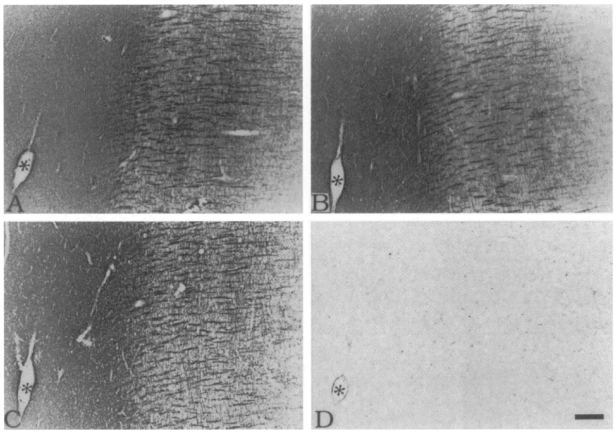
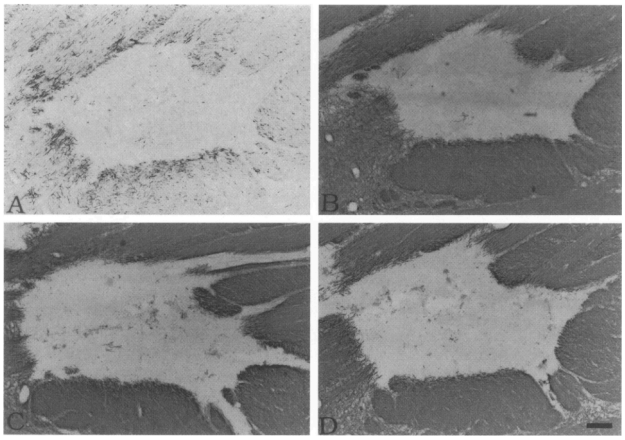
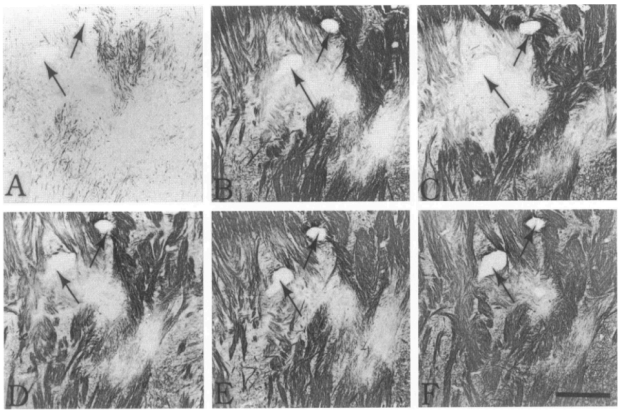


Clone MBP 2 used to detect myelinated structures in MS plaques by **IHC-F**
Image caption: ...clone 2 (C) recognized all myelinated structures in control brains, whereas no immunoreactivity was detected by EP antiserum (D). The identical vessel in the four photomicrographs is indicated by the asterisks. (Matsuo, A et al.)
Dilution used: 1:250



Clone MBP 2 used to detect myelinated structures in MS plaques by **IHC-F**
Image caption: ...D: Clone2 also recognized all myelinated structures...(Matsuo, A et al.)
Dilution used: 1:250



Clone MBP 2 used to detect myelinated structures in MS plaques by **IHC-P**
Figure 5. Serial sections of paraffin-embedded MS tissue immunostained with anti-EP(A), clone26(B), clone2(C), clone14(D), clone12(E), or clone22(F) .Notice that only abnormal myelin tissues strongly stained by anti-EP, whereas all other antibodies strongly stain the normal myelin surrounding the plaque area. See Materials and Methods for details. (Matsuo, A et al.)
Dilution used: 1:250

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References:

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