

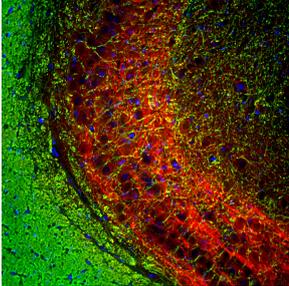
Anti-Myelin Basic Protein Antibody [7D2] (A85329)

Specifications:

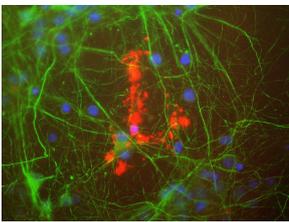
Name:	Anti-Myelin Basic Protein Antibody [7D2]
Description:	Mouse monoclonal (7D2) antibody to Myelin Basic Protein.
Specificity:	This antibody only binds the 21.5 kDa and 18.5 kDa rat MBP isotypes but binds all four isotypes of human MBP and bovine MBP. The epitope is mapped to the peptide AEGQRPGFGYGGGRASDYKSAHKGFKGVDAQGTLISKIFKLG, amino acids 145-184 of the human 21.5 kDa sequence. This antibody can be used to identify oligodendrocytes and Schwann cells in neural cell culture, to visualize myelin sheaths and myelinating cells in sectioned material, and to probe western blots for MBP gene products.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:5,000-1:10,000, ICC/IF: 1:2,000-1:5,000, IHC: 1:2,000-1:5,000
Reactivity:	Human, Horse, Cow, Porcine, Rat, Mouse
Immunogen:	Native Myelin Basic Protein isolated and purified from bovine brain.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	7D2
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	18.5 kDa and 21.5 kDa (human isotypes)
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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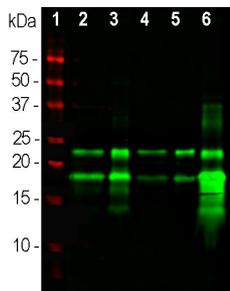
Images:



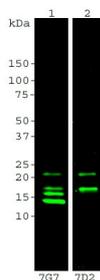
Immunofluorescent analysis rat brain hippocampal section stained with Anti-MBP Antibody (1:5,000 | green) and Anti-NF-M Antibody (A85323 | 1:2,000 | red). The Anti-MBP Antibody stains myelin sheaths around axons, while the Anti-NF-M Antibody labels dendrites and axons of neuronal cells.



Rat mixed neuron/glial cultures stained with Anti-MBP Antibody (red) and Anti-NF-L Antibody (A85286 | green). Blue is a DNA stain. Note that the MBP antibody stains an oligodendrocyte and some membrane shed from this cell. Other cells in the field include neurons, astrocytes, microglia and fibroblasts, all of which are completely negative for MBP, though the neuronal processes can be seen with the NF-L antibody.



Western blot analysis of different tissue lysates using Anti-MBP Antibody (1:10,000 | green): [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] cow spinal cord. Bands at 21.5kDa and 18.5kDa are the two larger transcripts from the MBP gene, showing that the epitope of this antibody depends on the sequence encoded by exon 2. Note that the Anti-MBP Antibody binds all four rat MBP transcripts running at 21.5kDa, 18.5kDa, 17kDa and 14kDa, so that this antibody binds to the core sequence of human and rodent MBP.



Blots of 20µg crude rat brain homogenate blotted with two different MBP antibodies. Lane 1: Anti-MBP Antibody (A85322 | 1:5,000). Lane 2: Anti-MBP Antibody (A85329 | 1:5,000). Anti-MBP Antibody (A85322) binds all four transcripts: 21.5kDa, 18.5kDa, 17kDa and 14kDa. While Anti-MBP Antibody (A85329) binds the largest 21.5 kDa and 18.5 kDa transcripts preferentially.