

# MBP Monoclonal Antibody (7G7)

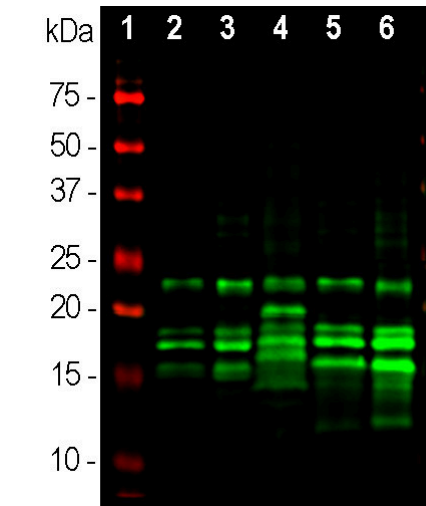
Product Details	
Size	100 µL
Species Reactivity	Bovine, Horse, Human, Mouse, Pig, Rat
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	7G7
Conjugate	Unconjugated
Immunogen	Purified myelin basic protein isolated from bovine brain, epitope is in peptide TPPPSQGKG, amino acids 125-133 of the human 21.5kDa sequence
Form	Liquid
Concentration	1 mg/mL
Purification	purified
Storage buffer	PBS with 50% glycerol
Contains	5mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Applications	Tested Dilution	Publications
Western Blot (WB)	1:10,000 -1:20,000	-
Immunohistochemistry (IHC)	1:10,000	-
Immunocytochemistry (ICC/IF)	1:2,000-1:5,000	-

## Product Specific Information

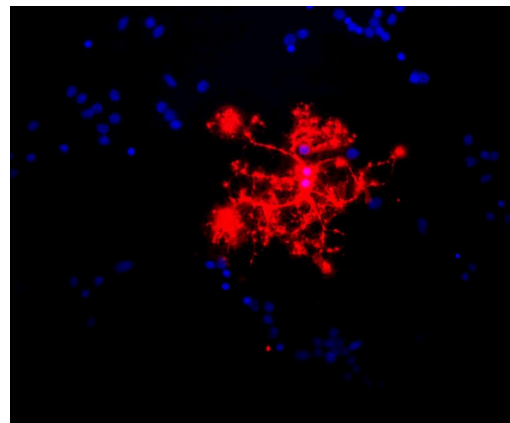
14-21.5 kDa rodent, 17.2-21.5 kDa human

Product Images For MBP Monoclonal Antibody (7G7)



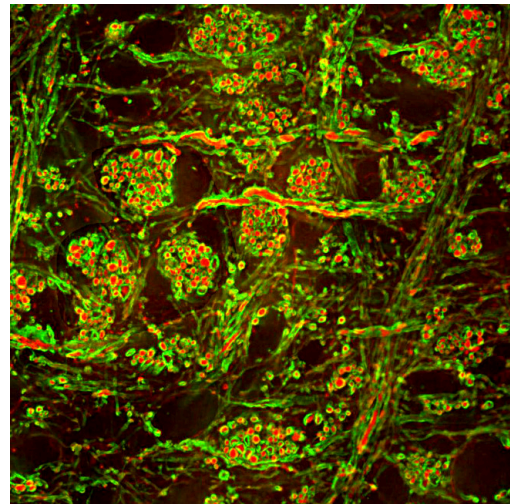
**MBP Antibody (MA5-47469) in WB**

Western blot analysis of MBP in different tissue lysates. Samples were incubated in MBP monoclonal antibody (Product # MA5-47469) using a dilution of 1:20,000 (green). [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] rat sciatic nerve, [5] mouse brain, [6] mouse spinal cord. Multiple bands at 14 kDa, 17 kDa, 18.5 kDa to 21.5 kDa are the alternate transcripts of MBP. Other bands are proteolytic fragments of the MBP protein.



**MBP Antibody (MA5-47469) in ICC/IF**

Immunocytochemistry analysis of MBP in rat mixed neuron/glial cultures. Samples were stained with MBP monoclonal antibody (Product # MA5-47469) in red. Blue is a DNA stain. Note that the Myelin Basic Protein 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 with this antibody.



**MBP Antibody (MA5-47469) in IHC**

Immunohistochemistry analysis of MBP in rat brain stem section. Samples were stained with MBP monoclonal antibody (Product # MA5-47469) using a dilution of 1:5,000 (green). Costained with rabbit pAb to neurofilament NF-H dilution 1:2,000 in red. The MBP antibody stains oligodendrocytes and the myelin sheathes around axons. In this high magnification view it is clear that the NF-H antibody labels axons within the myelin sheathes.

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