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#83683**Myelin Basic Protein (E9P7U) Mouse mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, W-S, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 12-18	Source/Isotype: Mouse IgG2b kappa	UniProt ID: #P02686	Entrez-Gene Id: 4155
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Product Usage Information	Application Western Blotting Simple Western™ Immunofluorescence (Frozen)	Dilution 1:1000 1:50 - 1:250 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i>	
Specificity/Sensitivity	Myelin Basic Protein (E9P7U) Mouse mAb recognizes endogenous levels of total MBP protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg188 of human MBP protein.	
Background	Myelin basic protein (MBP) is an abundant central nervous system (CNS) myelin membrane protein that plays an important role in nerve myelination. Myelin sheaths are multi-layered membranes derived from oligodendrocytes that increase the conduction velocity of axonal impulses. MBP helps to adhere the cytoplasmic leaflets of adjacent oligodendrocyte membranes to one another. Several splice variants of MBP are expressed in cells and the protein is modified following translation (i.e., phosphorylation, methylation), which suggests additional membrane adhesion functions (1).	
Background References	1. Harauz, G. and Boggs, J.M. (2013) <i>J Neurochem</i> 125, 334-61.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting W-S: Simple Western™ IF-F: Immunofluorescence (Frozen)
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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