


#9086 Store at -20C

MAG Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	100	Rabbit	#P20916	4099

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	MAG Antibody recognizes endogenous levels of total MAG protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu615 of human MAG protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Myelin-associated glycoprotein (MAG), which contains five immunoglobulin-like domains, is a highly glycosylated protein (1). MAG is a component of all myelinated internodes, whether formed by oligodendrocytes in the central nervous system (CNS) or by Schwann cells in the peripheral nervous system (PNS) (2), and has several functions. A known function of MAG is its inhibition of axonal regeneration after injury. It inhibits axonal outgrowth from adult dorsal root ganglion and in postnatal cerebellar, retinal, spinal, hippocampal, and superior cervical ganglion neurons (3). Interaction between MAG and several other molecules on the innermost wrap of myelin and complementary receptors on the opposing axon surface are required for long-term axon stability. Without MAG, myelin is still expressed, but long-term axon degeneration and altered axon cytoskeleton structure can be seen (4).	
Background References	1. Li, M. et al. (1996) <i>J Neurosci Res</i> 46, 404-14. 2. Nguyen, T. et al. (2009) <i>J Neurosci</i> 29, 630-7. 3. Yamashita, T. et al. (2002) <i>J Cell Biol</i> 157, 565-70. 4. Mehta, N.R. et al. (2010) <i>ACS Chem Neurosci</i> 1, 215-222.	

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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