

Myelin Protein Zero Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #P27573	Entrez-Gene Id: 17528
Product Usage Information		Application Western Blotting Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:1600 1:50 - 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Myelin Protein Zero Antibody recognizes endogenous levels of total Myelin Protein Zero protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val218 of mouse Myelin Protein Zero protein. Antibodies are purified by peptide affinity chromatography.				
Background		Myelin Protein Zero (MPZ, myelin P0) is a single pass membrane glycoprotein member of the IgG superfamily (1,2). MPZ is the most abundant myelin protein in the peripheral nervous system and acts as a major structural component of the peripheral myelin sheath (2,3). It has been shown that MPZ is necessary for normal myelin spiraling, compaction, and maintenance, with disruption of the <i>MPZ</i> gene leading to hypomyelination and degradation of associated axons (4). Mutations in the <i>MPZ</i> gene have been associated with demyelinating peripheral neuropathies including Charcot-Marie-Tooth neuropathy type 1B (CMT1B), Dejerine–Sottas syndrome (DSS), and				
		congenital hypomyelination (CH) (5,6).				
Background References		 D'Urso, D. et al. (1999) J Neurosci 19, 3396-403. Roomi, M.W. et al. (1978) Biochim Biophys Acta 536, 112-21. Greenfield, S. et al. (1973) J Neurochem 20, 1207-16. Giese, K.P. et al. (1992) Cell 71, 565-76. Hayasaka, K. et al. (1993) Nat Genet 5, 31-4. Warner, L.E. et al. (1996) Neuron 17, 451-60. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
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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

W: Western Blotting IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence

(Immunocytochemistry)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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