មត្ថុស្តុ Neurofilament-M Antibody





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Applications: W, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit	UniProt ID: #P07197	Entrez-Gene Id: 4741	
Product Usage Information		Application Western Blotting Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:50 - 1:200 1:200 - 1:800		
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/Sen	city/Sensitivity Neurofilament-M Antibody recognizes endogenous levels of total Neurofilament-M protein.					protein.	
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminus of human Neurofilament-M protein. Antibodies are purified by peptide affinity chromatography.					
Background		The cytoskeleton consists of three types of cytosolic fibers: actin microfilaments, intermediate filaments, and microtubules. Neurofilaments are the major intermediate filaments found in neurons and consist of light (NFL), medium (NFM), and heavy (NFH) subunits (1). Similar in structure to other intermediate filament proteins, neurofilaments have a globular amino-terminal head, a central α-helical rod domain, and a carboxy-terminal tail. A heterotetrameric unit (NFL-NFM and NFL-NFH) forms a protofilament, with eight protofilaments comprising the typical 10 nm intermediate filament (2). While neurofilaments are critical for radial axon growth and determine axon caliber, microtubules are involved in axon elongation. PKA phosphorylates the head domain of NFL and NFM to inhibit neurofilament assembly (3,4). Research studies have shown neurofilament accumulations in many human neurological disorders, including Parkinson's disease (in Lewy bodies along with α-synuclein), Alzheimer's disease, Charcot-Marie-Tooth disease, and Amyotrophic Lateral Sclerosis (ALS) (1).					
Background Re	eferences	1. Al-Chalabi, A. and Miller, C.C. (2003) <i>Bioessays</i> 25, 346-55. 2. Cohlberg, J.A. et al. (1995) <i>J Biol Chem</i> 270, 9334-9. 3. Hisanaga, S. et al. (1994) <i>Mol Biol Cell</i> 5, 161-72. 4. Sihag, R.K. et al. (1999) <i>J Neurochem</i> 72, 491-9.					
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	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 K	ey	W: Western Blotting IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat					
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