ର୍ଚ୍ଚ Neurofila ଜୁ mAb ଜୁ					Orders:	CHNOLOG 877-616-CELL (2	
St					oracis.	orders@cellsignal.	
					Support:	877-678-TECH (8	
287 7					Web:	info@cellsignal. cellsignal.	
		n Diagnastia Dras	o duno o	3 Trask L	ane Danvers Mas	sachusetts 01923	
Applications: WB, IHC-P, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P07196	Entrez-Gene 4747	
Product Usage						Dilution	
Information		Application Western Blotting			Dilution 1:1000		
		Immunohistochemistry (Paraffin)			1:100		
		nmunofluorescence	` ,		1:100		
Storage				7.5), 150 mM NaCl, 100 o not aliquot the antibody	100 $\mu\text{g/ml}$ BSA, 50% glycerol and less than ibody.		
	Fo	or a carrier-free (BSA	and azide free) v	version of this product se	e product #10768.		
Specificity / Sensitivity		Neurofilament-L (C28E10) Rabbit mAb detects endogenous levels of total Neurofilament-L protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Glu450 of human Neurofilament-L.					
Background		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 References		 Al-Chalabi, A. and Miller, C.C. (2003) <i>Bioessays</i> 25, 346-55. Cohlberg, J.A. et al. (1995) <i>J Biol Chem</i> 270, 9334-9. Hisanaga, S. et al. (1994) <i>Mol Biol Cell</i> 5, 161-72. Sihag, R.K. et al. (1999) <i>J Neurochem</i> 72, 491-9. 					
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 TB 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	W	B: Western Blotting I	HC-P: Immunohi	-F: Immunofluoresco	ence (Frozen)		
Cross-Reactivity KeyH: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. IX: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horsGP: Guinea Pig Rab: rabbit All: all species expected							
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Neurofilament-L (C28E10) Rabbit mAb (#2837) Datasheet Without Images Cell Signaling Technology

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