#2837 Store at -20C

Neurofilament-L (C28E10) Rabbit



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Applications: WB, IHC-P, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P07196	Entrez-Gene Id: 4747		
Product Usage Information	Ар	plication		Dilution				
imormation	We	Western Blotting				1:1000		
		Immunohistochemistry (Paraffin)				1:100		
	lmı	Immunofluorescence (Frozen)				1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	For	For a carrier-free (BSA and azide free) version of this product see product #10768.						
Specificity / Sensi	tivity Neu	Neurofilament-L (C28E10) Rabbit mAb detects endogenous levels of total Neurofilament-L protein.						
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Glu450 of human Neurofilament-L.						
Background	and light filan a ca prot radi pho stuc Parl	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).						
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 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.

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

Applications 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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Limited Uses

Neurofilament-L (C28E10) Rabbit mAb (#2837) Datasheet Without Images Cell Signaling Technology

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