

6EU8#

Neurofilament-L (C28E10) Rabbit mAb (Alexa Fluor[®] 555 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P07196	Entrez-Gene Id: 4747
Product Usage Information		Application Immunofluorescence (Fr	rozen)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Neurofilament-L (C28E10) Rabbit mAb (Alexa Fluor [®] 555 Conjugate) 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 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye and tested in-house for immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Neurofilament-L (C28E10) Rabbit mAb #2837.			
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 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).

Applications Key

IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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