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Product datasheet for CF814559

Neurofilament (NEFL) Mouse Monoclonal Antibody [Clone ID: OTI5E9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5E9
Applications:	ELISA
Recommended Dilution:	ELISA 1:5000-10000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human NEFL (NP_006149). The exact sequence is proprietary.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	61.5 kDa
Gene Name:	neurofilament light chain
Database Link:	NP_006149 Entrez Gene 4747 Human P07196

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Background: Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y. [provided by RefSeq, Oct 2008]

Synonyms: CMT1F; CMT2E; CMTDIG; NF-L; NF68; NFL; PPP1R110

Protein Families: Druggable Genome, ES Cell Differentiation/IPS

Protein Pathways: Amyotrophic lateral sclerosis (ALS)