

## Product datasheet for **CF814272**

### Neurofilament (NEFL) Mouse Monoclonal Antibody [Clone ID: OTI3C4]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI3C4   |
| Applications:           | ELISA  |
| Recommended Dilution:   | ELISA 1:5000-10000   |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 401-543aa of human NEFL (NP_006149) produced in E.coli.  |
| 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:          | <a href="#">NP_006149</a><br><a href="#">Entrez Gene 4747 Human</a><br><a href="#">P07196</a>  |



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| <b>Background:</b>       | 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] |
| <b>Synonyms:</b>         | CMT1F; CMT2E; CMTDIG; NF-L; NF68; NFL; PPP1R110  |
| <b>Protein Families:</b> | Druggable Genome, ES Cell Differentiation/IPS  |
| <b>Protein Pathways:</b> | Amyotrophic lateral sclerosis (ALS)  |