

Basic Information

| | |
|---------------------------|---|
| Product Name | Anti-NF-L/NEFL Antibody (Clone#OTI3G2) |
| Gene Name | NEFL |
| Source | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Species Reactivity | human, mouse, rat |
| Tested Application | IHC, WB |
| Contents | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Immunogen | Human recombinant protein fragment corresponding to amino acids 1-360 of human NEFL (NP_006149) produced in E.coli. |
| Concentration | 500 ug/ml |
| Purification | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Observed MW | 61.3 kDa |
| Dilution Ratios | Western blot (WB): 1:2000 Immunohistochemistry (IHC):1:150 |

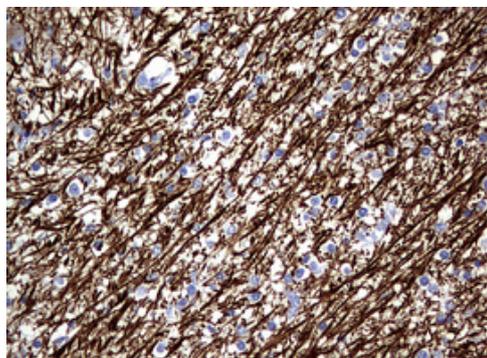
Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

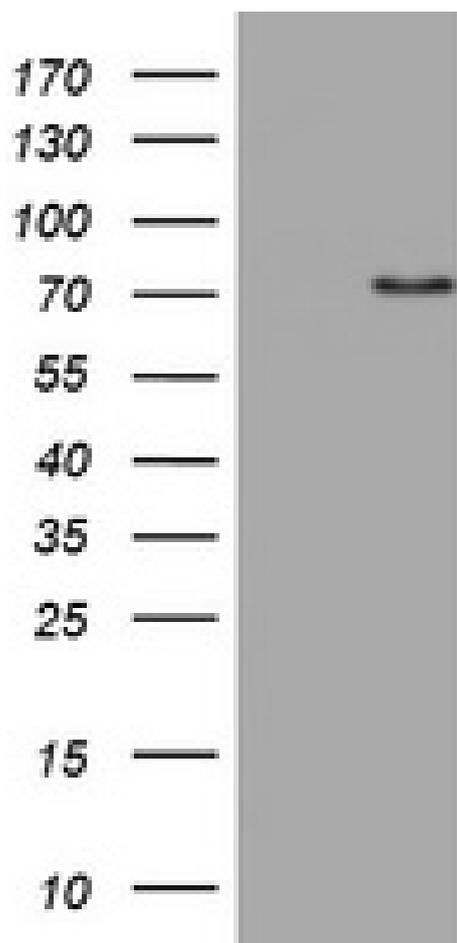
Background Information

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]

Selected Validation Data



Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum using anti-NEFL mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, M02482-6)



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NEFL (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEFL.