

## HUMAN NEFL (89-400) PROTEIN, HIS TAG

**Cat.#:** 11444

**Product Name:** Human NEFL (89-400) Protein

**Size:** 10 µg, 50 µg and 100 µg

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

**Target:** NEFL

**UNIPROT ID:** P07196

**Description:** Recombinant human NEFL(89-400) protein with N-terminal 6xHis tag

**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]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 36.9 kDa after removal of the signal peptide. The apparent molecular mass of His-NEFL(89-400) is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** 6xHis tag NEFL(Gln89-Leu400)

**Purity:** The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

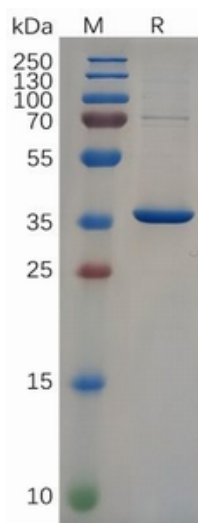


Figure 1. Human NEFL(89-400) Protein, His Tag on SDS-PAGE under reducing condition.

Human NEFL(89-400), His tagged protein ELISA  
0.1 µg of Human NEFL(89-400), His tagged protein per well

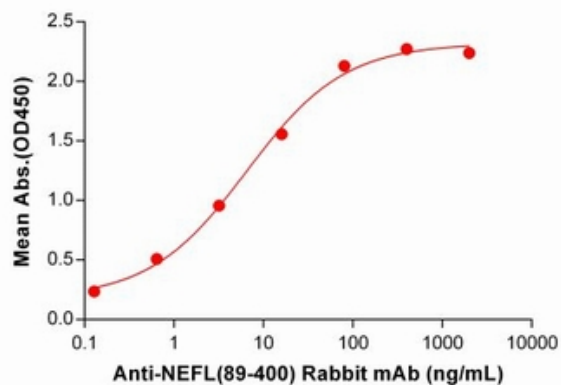


Figure 2. ELISA plate pre-coated by 1 µg/ml (100 µl/well) Human NEFL (89-400) Protein, His Tag (11444) can bind Anti-NEFL(89-400) antibody(DM199), Rabbit mAb 28542 in a linear range of 0.128-80 ng/mL.