

## **NEFL Antibody (Center R185) Blocking Peptide**

Synthetic peptide Catalog # BP7332c

### **Specification**

NEFL Antibody (Center R185) Blocking Peptide - Product Information

Primary Accession P07196

NEFL Antibody (Center R185) Blocking Peptide - Additional Information

**Gene ID 4747** 

#### **Other Names**

Neurofilament light polypeptide, NF-L, 68 kDa neurofilament protein, Neurofilament triplet L protein, NEFL, NF68, NFL

#### Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/products/AP7332c>AP7332c</a> was selected from the Center region of human NEFL. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NEFL Antibody (Center R185) Blocking Peptide - Protein Information

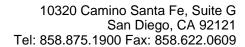
Name NEFL

# NEFL Antibody (Center R185) Blocking Peptide - Background

NEFL is type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. This protein comprises the axoskeleton and it functionally maintains the neuronal caliber. The protein may also play a role in intracellular transport to axons and dendrites. Mutations in this protein cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies.

# **NEFL Antibody (Center R185) Blocking Peptide - References**

Martins-de-Souza, D., Gattaz, W.F. J. Neural Transm. 116 (3), 275-289 (2009) Shin, J.S., Chung, K.W. J. Hum. Genet. 53 (10), 936-940 (2008) Dong, D.L., Xu, Z.S. J. Biol. Chem. 268 (22), 16679-16687 (1993) Hurst, J., Flavell, D. Cytogenet. Cell Genet. 45 (1), 30-32 (1987)





## Synonyms NF68, NFL

### **Function**

Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (By similarity).

### **Cellular Location**

Cell projection, axon {ECO:0000250|UniProtKB:P08551}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P08551}

# **NEFL Antibody (Center R185) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

• Blocking Peptides