

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 [AP7332c](/products/AP7332c) 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](#)