

# Neurofilament (NF-L) (PT1146R) PT™ Rabbit mAb

CatalogNo: YM8878 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, IP, ELISA

### MW

- 62kD (Calculated)
- 68kD (Observed)

### Isotype

- IgG, Kappa

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Recommended Dilution Ratios

**IHC 1:2000-1:10000****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

## Basic Information

**Clonality** Monoclonal**Clone Number** PT1146R

## Immunogen Information

**Specificity** Endogenous

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## | Target Information

**Gene name** NEFL NF68 NFL

**Protein Name** Neurofilament light polypeptide;NF-L;Neurofilament triplet L protein;68 kDa neurofilament protein;

| Organism | Gene ID                | UniProt ID              |
|----------|------------------------|-------------------------|
| Human    | <a href="#">4747;</a>  | <a href="#">P07196;</a> |
| Mouse    | <a href="#">18039;</a> | <a href="#">P08551;</a> |
| Rat      | <a href="#">83613;</a> | <a href="#">P19527;</a> |

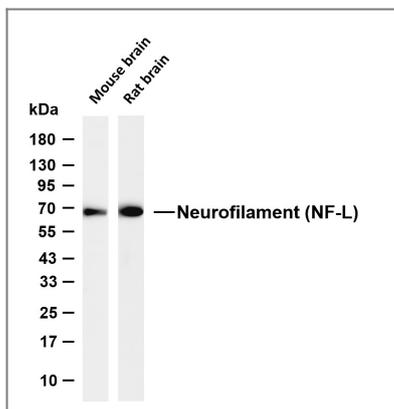
**Cellular Localization** Cytoplasmic

**Tissue specificity** brain, retina,Expressed in dorsal root ganglion and 159 other cell types or tissues,

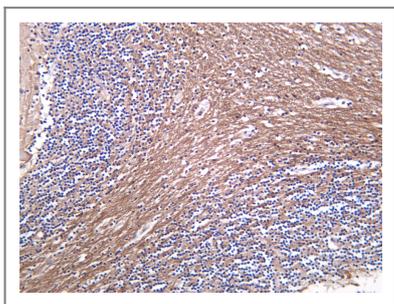
**Function** Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,Disease:Defects in NEFL are the cause of Charcot-Marie-Tooth disease type 1F (CMT1F) [MIM:607734]. CMT1F is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT1 group are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. CMT1F is characterized by onset in infancy or childhood (range 1 to 13 years).,Disease:Defects in NEFL are the cause of Charcot-Marie-Tooth disease type 2E (CMT2E) [MIM:607684]. CMT2E is an autosomal dominant form of Charcot-Marie-Tooth disease type 2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy.,Domain:The extra mass and high charge density that distinguish the neurofilament proteins from all other intermediate filament proteins are due to the tailpiece extensions. This region may form a charged scaffolding structure suitable for interaction with other neuronal components or ions.,Function:Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.,miscellaneous:NF-L is the most abundant of the three neurofilament proteins and, as the other nonepithelial intermediate filament proteins, it can form homopolymeric 10-nm filaments.,PTM:O-glycosylated.,similarity:Belongs to the intermediate filament family.,subunit:Interacts with RGNEF.,

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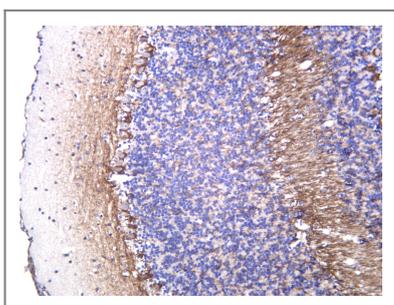
## | Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Neurofilament (NF-L) (PT1146R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Mouse brain Lane 2: Rat brain Predicted band size: 62kDa Observed band size: 68kDa



Human brain was stained with anti-Neurofilament (NF-L) (PT1146R) Rabbit antibody



Mouse brain was stained with anti-Neurofilament (NF-L) (PT1146R) Rabbit antibody

## Contact information

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**Neurofilament (NF-L) (PT1146R) PT™ Rabbit mAb**

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