

A20269

Leader in Biomolecular Solutions for Life Science



Neurofilament L Rabbit mAb

Catalog No.: A20269

Recombinant

1 Publications

Basic Information

Observed MW

70 kDa

Calculated MW

62 kDa

Category

Monoclonal Antibody

Applications

WB,IHC-P,ELISA,IF-F,IF-P

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

ARC50056

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.

Recommended Dilutions

WB 1:10000 - 1:400000

IF-F 1:200 - 1:800

IF-P 1:200 - 1:800

IHC-P 1:500 - 1:5000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

4747

Swiss Prot

P07196

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

NFL; NF-L; NF68; CMT1F; CMT2E; CMTDIG; PPP1R110; Neurofilament L

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

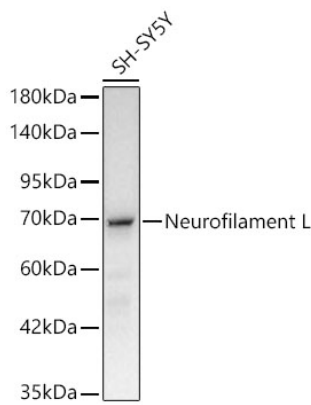
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3

Contact

 www.abclonal.com

Validation Data



Western blot analysis of lysates from SH-SY5Y cells using Neurofilament L Rabbit mAb (A20269) at 1:100000 dilution.

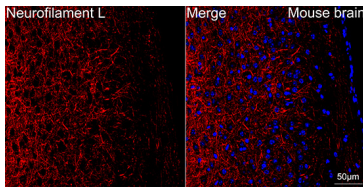
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

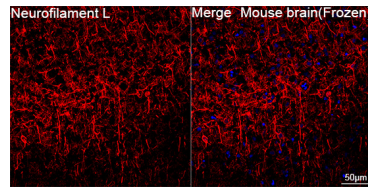
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

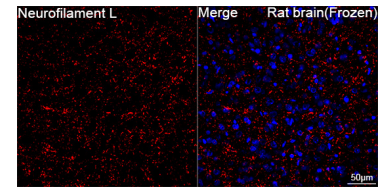
Exposure time:30s.



Confocal imaging of paraffin-embedded Mouse brain tissue using Neurofilament L Rabbit mAb (A20269, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of frozen sections Mouse brain tissue using Neurofilament L Rabbit mAb (A20269, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat brain tissue using Neurofilament L Rabbit mAb (A20269, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.