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Neurofilament L Rabbit mAb

Catalog No.: A20269 Recombinant

Basic Information

Observed MW
70kDa/

Calculated MW
62kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC

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 - 1:100000
IHC-P	1:100 - 1:500
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
4747

Swiss Prot
P07196

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 60-250 of human Neurofilament L (NP_006149.2).

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

Contact

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Product Information

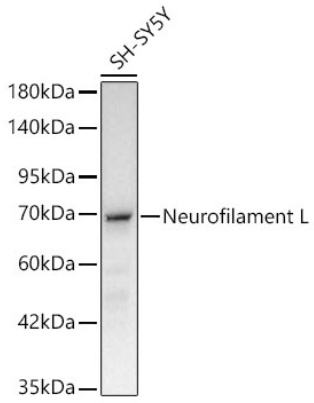
Source
Rabbit

Isotype
IgG

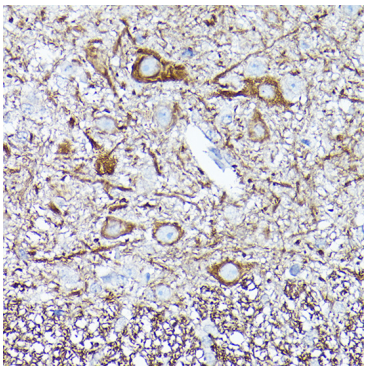
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

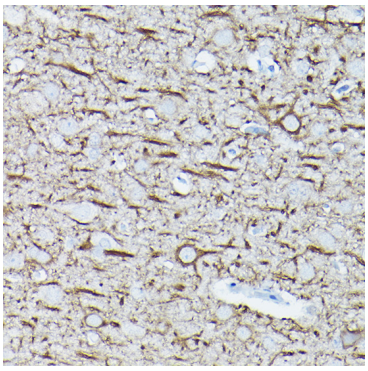
Validation Data



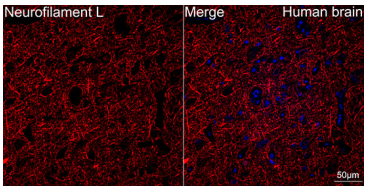
Western blot analysis of lysates from SH-SY5Y cells using Neurofilament L Rabbit mAb(A20269) at 1:100000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time:30s.



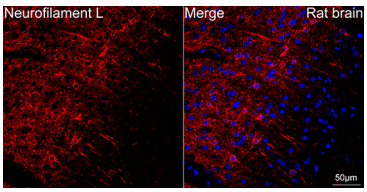
Immunohistochemistry analysis of paraffin-embedded mouse brain using Neurofilament L Rabbit mAb (A20269) at dilution of 1:100(40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



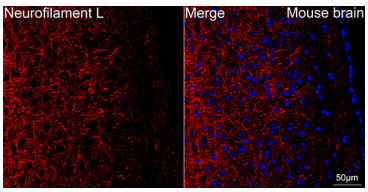
Immunohistochemistry analysis of paraffin-embedded rat brain using Neurofilament L Rabbit mAb (A20269) at dilution of 1:100(40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



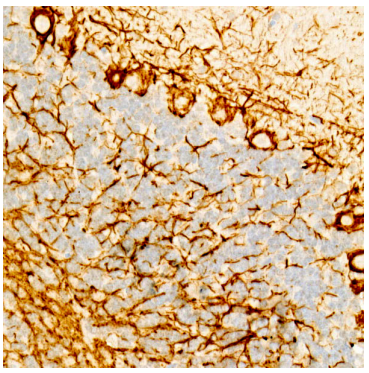
Confocal imaging of Human brain tissue using Neurofilament L Rabbit mAb (A20269, dilution 1:200) (Red). DAPI was used for nuclear staining (blue). Objective: 40x.Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.



Confocal imaging of paraffin-embedded Rat 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 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.



Immunohistochemistry analysis of paraffin-embedded mouse brain tissue using Neurofilament L Rabbit mAb (A20269) at a dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.