ABclonal™

Neurofilament H Rabbit mAb

Catalog No.: A19084   `Recombinant`   `3 Publications`

Basic Information

Observed MW
220kDa

Calculated MW
112kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC0494

Background

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the heavy neurofilament protein. This protein is commonly used as a biomarker of neuronal damage and susceptibility to amyotrophic lateral sclerosis (ALS) has been associated with mutations in this gene.

Recommended Dilutions

WB	1:100 - 1:500
IHC-P	1:500 - 1:1000
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells

Immunogen Information

Gene ID
4744

Swiss Prot
P12036

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 550-650 of human Neurofilament H (P12036).

Synonyms
NFH; CMT2CC; Neurofilament H

Contact

🌐 | www.abclonal.com

Product Information
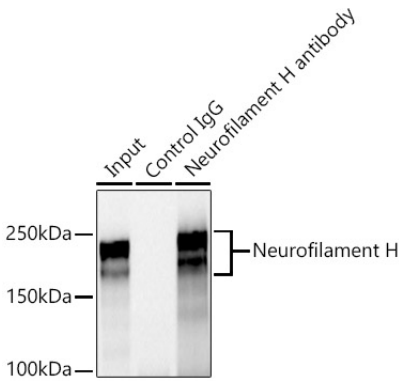
Source
Rabbit

Isotype
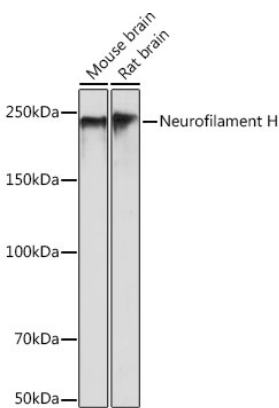IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
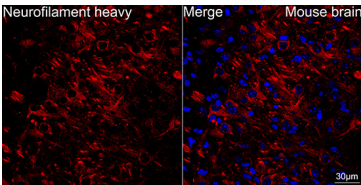Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.
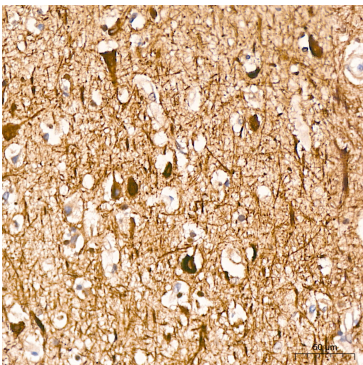
Validation Data

Immunoprecipitation analysis of 600 µg extracts of Rat brain cells using 3 µg Neurofilament H antibody (A19084). Western blot was performed from the immunoprecipitate using Neurofilament H antibody (A19084) at a dilution of 1:500.
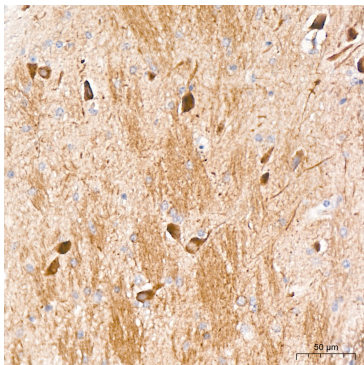

Western blot analysis of various lysates using Neurofilament H Rabbit mAb (A19084) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

Confocal imaging of frozen sections of mouse brain using Neurofilament H Rabbit mAb (A19084, dilution 1:100) followed by 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 0.01M citrate buffer (pH 6.0) prior to IF staining.
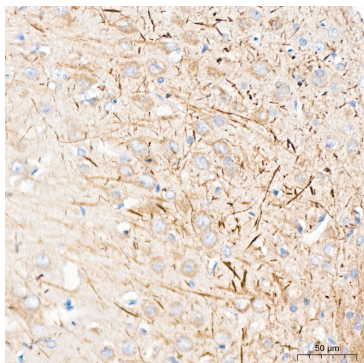
Immunohistochemistry analysis of Neurofilament H in paraffin-embedded human brain tissue using Neurofilament H Rabbit mAb (A19084) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of Neurofilament H in paraffin-embedded mouse brain tissue using Neurofilament H Rabbit mAb (A19084) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data

Immunohistochemistry analysis of Neurofilament H in paraffin-embedded rat brain tissue using Neurofilament H Rabbit mAb (A19084) at a dilution of 1:800 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.