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Neurofilament H Rabbit mAb

Catalog No.: A23495 Recombinant

Basic Information

Observed MW
180-220kDa

Calculated MW
112kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC50468

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	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
4744

Swiss Prot
P12036

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

Synonyms
NFH; CMT2CC; Neurofilament H

Contact

400-999-6126

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Product Information

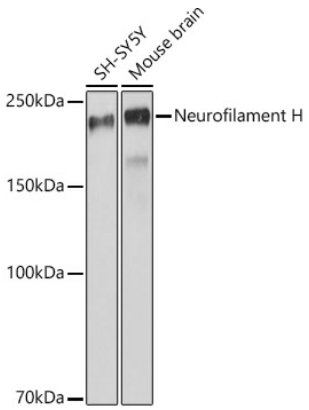
Source
Rabbit

Isotype
IgG

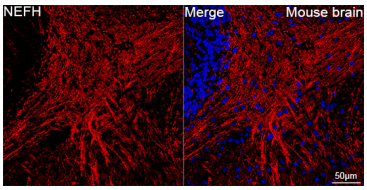
Purification
Affinity purification

Storage
Store at -20℃. 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.

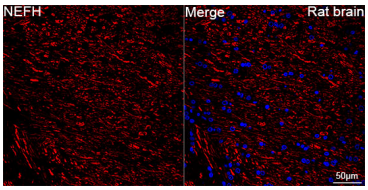
Validation Data



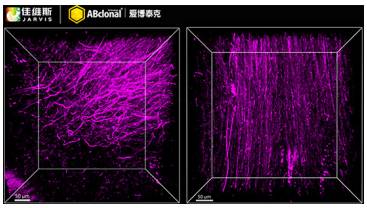
Western blot analysis of various lysates, using Neurofilament H Rabbit mAb (A23495) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



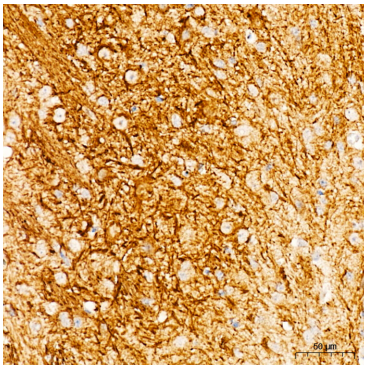
Confocal imaging of paraffin-embedded Mouse brain using Neurofilament H Rabbit mAb (A23495,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citRate buffer (pH 6.0) prior to IF staining.



Confocal imaging of paraffin-embedded Rat brain using Neurofilament H Rabbit mAb (A23495,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.



3D imaging of solvent-cleared mouse brain sections (at a thickness of 1 mm) using Neurofilament H Rabbit mAb (A23495, diluted at a ratio of 1:200) . FDISCO JA11011 was used for sample clearing. We acknowledge Javis (Wuhan) Bio - Pharma Co., Ltd. in 3D imaging processing and kindly providing this image.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Neurofilament H Rabbit mAb (A23495) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.