

# Anti-NF-H Antibody [JF99-07] - BSA and Azide free

## HA750357



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Cynomolgus monkey, Pig
<b>Applications:</b>	WB, IHC-P, IHC-Fr, IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 200 kDa
<b>Clone number:</b>	JF99-07

**Description:** Neurofilament-H (NF-H), for neurofilament heavy polypeptide, a member of the intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilaments are dynamic structures; they contain phosphorylation sites for a large number of protein kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase 5, extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-activated protein kinase gamma. In addition to their role in the control of axon caliber, neurofilaments may affect other cytoskeletal elements, such as microtubules and Actin filaments. Changes in neurofilament phosphorylation or metabolism are frequently observed in neurodegenerative diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease and Alzheimer's disease.

**Immunogen:** Synthetic peptide within human NEFH aa 690-740.

**Positive control:** Mouse brain tissue lysate, Rat brain tissue lysate, Rat hippocampus tissue lysate, human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue.

**Subcellular location:** Cytoplasm.

**Database links:** SwissProt: P12036 Human | P19246 Mouse | P16884 Rat

**Recommended Dilutions:**

<b>WB</b>	1:2,000
<b>IHC-P</b>	1:1,000
<b>IHC-Fr</b>	1:500-1:2,000
<b>IF-Tissue</b>	1:500

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

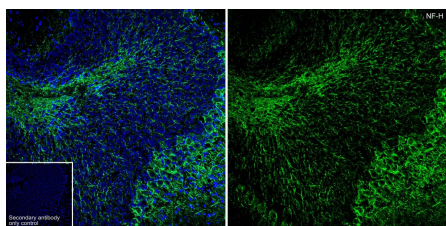
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Application: IHC-Fr

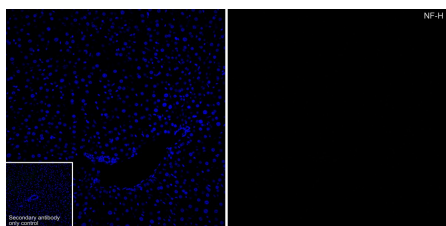
Species: Mouse

Site: Cerebellum

Sample: Frozen section

Antibody concentration: 1:2,000

Antigen retrieval: Not required

**Fig2:** Application: IHC-Fr

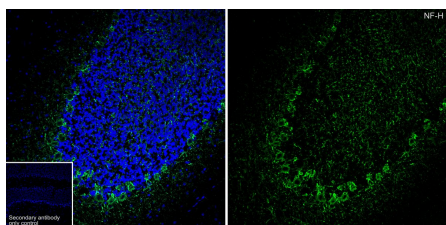
Species: Mouse

Site: Liver (Negative)

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig3:** Application: IHC-Fr

Species: Rat

Site: Cerebellum

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

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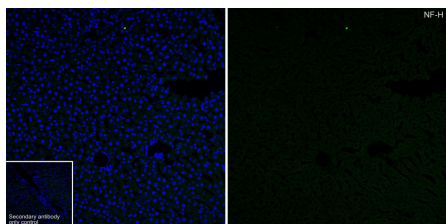
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**Fig4:** Application: IHC-Fr

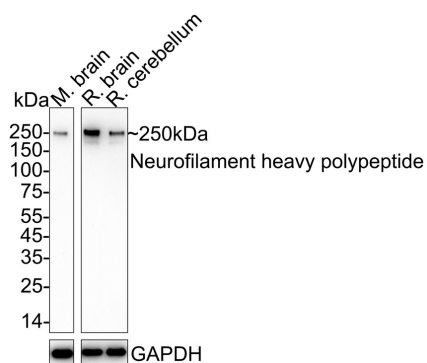
Species: Rat

Site: Liver (Negative)

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig5:** Western blot analysis of NF-H on different lysates with Rabbit anti-NF-H antibody (HA750357) at 1/2,000 dilution.

Lane 1: Mouse brain tissue lysate (20 µg/Lane)

Lane 2: Rat brain tissue lysate (20 µg/Lane)

Lane 3: Rat hippocampus tissue lysate (20 µg/Lane)

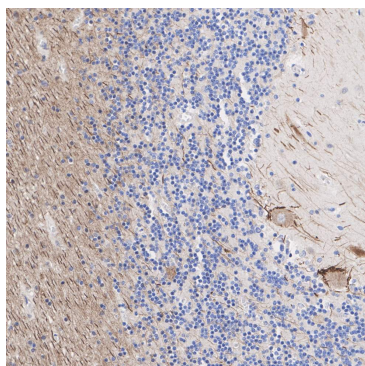
Predicted band size: 200 kDa

Observed band size: 250 kDa

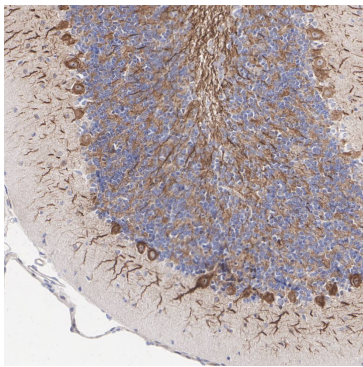
Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750357) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

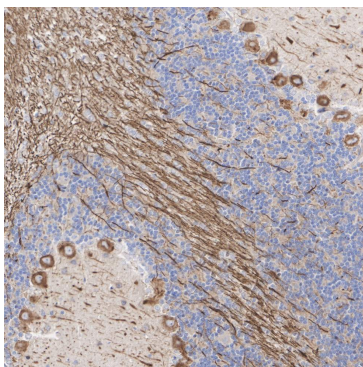
**Fig6:** Immunohistochemical analysis of paraffin-embedded human cerebellum tissue with Rabbit anti-NF-H antibody (HA750357) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750357) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



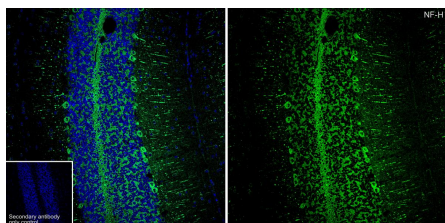
**Fig7:** Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue with Rabbit anti-NF-H antibody (HA750357) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750357) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig8:** Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue with Rabbit anti-NF-H antibody (HA750357) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750357) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig9:** Application: IF-tissue

Species: Mouse

Site: Cerebellum

Sample: Paraffin-embedded section

Antibody concentration: 1:500

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Slowik A et al. The sphingosine 1-phosphate receptor agonist FTY720 is neuroprotective after cuprizone-induced CNS demyelination. *Br J Pharmacol* 172:80-92 (2015).
2. Patra K et al. A role for solute carrier family 10 member 4, or vesicular aminergic-associated transporter, in structural remodelling and transmitter release at the mouse neuromuscular junction. *Eur J Neurosci* 41:316-27 (2015).

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