

## Anti-Neurofilament NF-H Antibody

Our Anti-Neurofilament NF-H primary antibody from PhosphoSolutions is chicken polyclonal. It detect Catalog # AN1465

## Specification

# **Anti-Neurofilament NF-H Antibody - Product Information**

Application	WB, IHC
Primary Accession	<u>P12036</u>
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	111838

## Anti-Neurofilament NF-H Antibody - Additional Information

Gene ID

4744

**Other Names** 

200 kDa neurofilament protein antibody, CMT2CC antibody, Nefh antibody, Neurofilament heavy polypeptide 200kDa antibody, Neurofilament heavy polypeptide antibody, Neurofilament triplet H protein antibody, NF H antibody, NF-H antibody, NFH a

#### Target/Specificity

Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H (Harris et al., 1991). NF-H is the neurofilament high or heavy molecular weight polypeptide and runs on SDS-PAGE gels at 200-220 kDa, with some variability across species boundaries. Antibodies to NF-H are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-H antibodies can also be useful to visualize neurofilament accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (Lou Gehrig's disease) (Mendonca et al., 2005) and Alzheimer's disease (Hu et al., 2002).

Format Total IgY fraction

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

Anti-Neurofilament NF-H Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

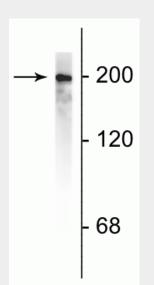
**Anti-Neurofilament NF-H Antibody - Protocols** 



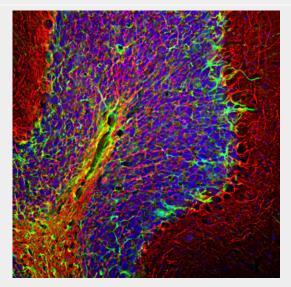
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# Anti-Neurofilament NF-H Antibody - Images

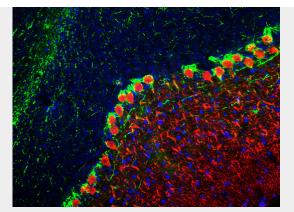


Western blot of rat cortical lysate showing specific immunolabeling of the ~200 kDa NF-H protein.

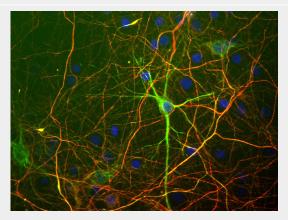


Immunofluorescence of a section of rat cerebellum showing specific labeling of Neurofilament H (cat. 1451-NFH, 1:25,000, red) in nuclei of neurons and specific labeling of GFAP (cat. 620-GFAP, 1:5000, green) in astrocytes and other glial cells, and DAPI staining of nuclear DNA.

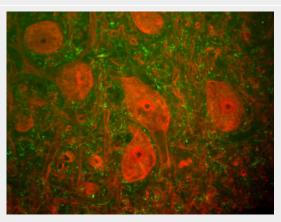




Immunofluorescence of a section of rat cerebellum showing specific labeling of the axons with anti-neurofilament H antibody (cat. 1451-NFH, green, 1:25,000). The section is colabeled with anti-calbindin (cat. 302-CALB, red, 1:1000) labeling the dendrites of Purkinje cells. The blue is DAPI staining nuclear DNA.



Immunostaining of mixed cultured rat neurons and glia stained with anti-NFH antibody (cat. 1451-NFH, red, 1:25,000) and anti-NFL antibody (cat. 1452-NFL, green, 1:100).



Immunofluorescence of a section of rat spinal cord labeled with anti-UCHL1 (cat. 2060-UCHL1, 1:500, red) and anti-Neurofilament H (cat. 1451-NFH, 1:25,000, green). The large cells are alpha-motorneurons and UCHL1 fills the cytoplasm of their perikarya and dendrites.

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