

# Product Data Sheet

## Purified anti-Neurofilament heavy protein (NF-H)

**Catalog # / Size:** 626402 / 100 µg

**Clone:** NF-01

**Isotype:** Mouse IgG1

**Immunogen:** Pellet of pig brain cold stable proteins after microtubule depolymerization

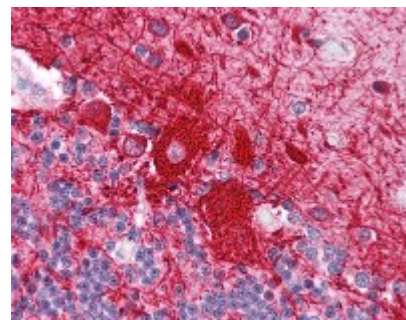
**Reactivity:** All species, reacts with conserved phosphorylated epitope

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.

**Concentration:** 0.5 mg/ml

**Storage:** Upon receipt, store undiluted at 4°C.



Formalin-fixed paraffin-embedded human cerebellum tissue was stained with NF-01 at 10 µg/ml and developed with an alkaline phosphatase chromogen substrate (red color). Tissue was counterstained with H&E (blue/pink). Magnification, 40X.

## Applications:

**Applications:** WB - *Quality tested*  
IHC - *Validated*  
ICC - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. For Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. For IHC, use a 10 µg/ml dilution of antibody for staining. Antigen retrieval for IHC of formalin-fixed paraffin-embedded tissue using 0.01 M sodium citrate buffer is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemistry of formalin-fixed, paraffin-embedded tissue sections, immunocytochemistry.

**Application References:** 1. Lukas Z, *et al.* 1993. *Histochemistry* 100:495.

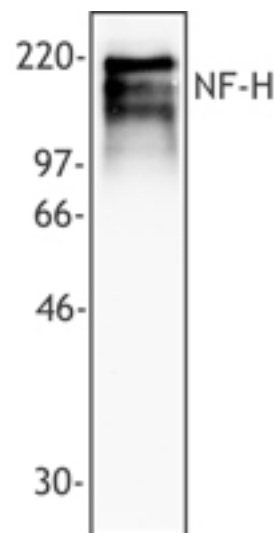
**Description:** NF-H is an abundant, stable cytoplasmic protein located in neuronal cells in large axons frequently used as a cell type marker. The NF-H protein shares a high degree of structural and sequence homology with the NF-L and NF-M subunits, especially in the coiled-coil core domain. NF-M and NF-H form flexible extensions linking the neurofilament proteins to each other and other cytoplasmic proteins. Deletions and insertions in the NF-H protein have been reported in amyotrophic lateral sclerosis. The NF-01 monoclonal antibody reacts with a conserved phosphorylated epitope of NF-H present in all species and has been reported to be useful for Western blotting, immunohistochemistry using formalin-fixed, paraffin-embedded tissues and immunofluorescence staining.

**Antigen References:** 1. Zhu Q, *et al.* 1998. *J. Biol. Chem.* 143:183.  
2. Al-Chalabi A. 1999. *Hum. Molec. Genet.* 8:157.

**Related Products:** **Product**  
HRP Goat anti-mouse IgG (minimal x-reactivity)

**Clone**  
Poly4053

**Application**  
ELISA, IHC, WB



Lysates from primary human brain tissues were resolved by electrophoresis, transferred to nitrocellulose, and probed with monoclonal antibody against NF-H. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.



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