

# Product Data Sheet

## Purified anti-Neurofilament medium protein (NF-M)

**Catalog # / Size:** 626301 / 25 µg

**Clone:** NF-09

**Isotype:** Mouse IgG2a

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

**Reactivity:** All species, reacts with both phosphorylated and non-phosphorylated forms

**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.

## 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 1 µl per 2 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: immunocytochemistry.

**Application References:** 1. Draberova E, *et al.* 1999. *Folia Biol. (Praha)* 45:163.

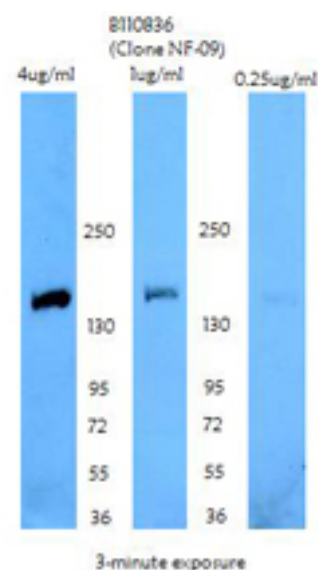
**Description:** NF-M is an abundant, stable cytoplasmic protein located in neuronal cells in large axons frequently used as a cell type specific marker. NF-M is modified by glycosylation and phosphorylation. The NF-M protein shares a high degree of structural and sequence homology with the NF-L and NF-H 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. The NF-09 monoclonal antibody recognizes the highly conserved NF-M protein (phosphorylation and non-phosphorylated form) in all species. The NF-09 antibody has been reported to be useful for Western blotting, immunohistochemistry using formalin-fixed paraffin-embedded tissues, and immunofluorescence staining.

**Antigen References:** 1. Levy E, *et al.* 1987. *Eur. J. Biochem.* 166:71.  
2. Myers MW, *et al.* 1987. *EMBO J.* 6:1617.

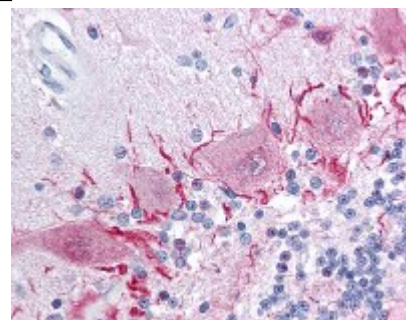
**Related Products:** **Product**  
HRP Goat anti-mouse IgG (minimal x-reactivity)

**Clone**  
Poly4053

**Application**  
ELISA, IHC, WB



Rat brain tissue lysates were resolved by electrophoresis, transferred to nitrocellulose, and probed with purified monoclonal anti-Neurofilament medium protein antibody (Clone NF-09). Proteins were visualized using a goat anti-mouse IgG secondary conjugated to HRP and chemiluminescence detection.



Formalin-fixed paraffin-embedded human cerebellum tissue was stained with NF-09 at 15 µg/ml and developed with an alkaline phosphatase chromogen substrate (red color). Tissue was counterstained with H&E (blue/pink). Magnification, 40X.



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