

NEFM

Mouse Anti-Human Neurofilament medium polypeptide Clone NF-09 mAb

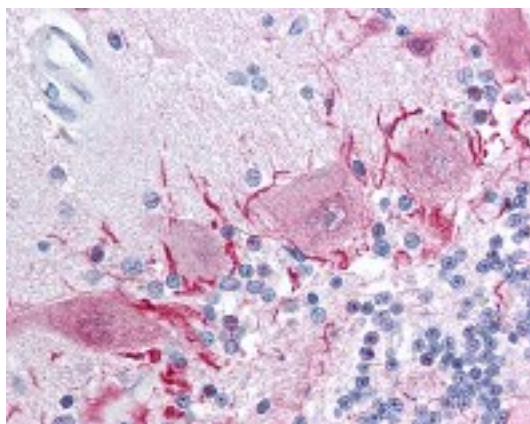
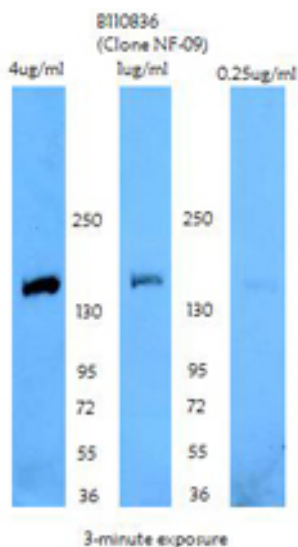
Catalog No.	CS114450 CS114451	Quantity:	25 µg 100 µg
Alternate Names:	NEF3, NF-M, NFM, neurofilament triplet M protein, neurofilament, medium polypeptide 150kDa, neurofilament-3 (150 kD medium)		
Description:	NF-M is an abundant, stable cytoplasmic protein located in neuronal cells in large axons frequently 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.		
Concentration:	0.5 mg/ml		
Gene ID:	4741		
Structure:	Contains four coiled-coil core domains, in most vertebrates NF-M forms interacts with NF-H (heavy chains) and NF-L (light chains), approximately 160 kD.		
Specificity:	Provides flexible extension (along with NF-H) to link neurofilaments to each other and to other cytoplasmic proteins		
Interaction:	Syntaxin binding protein 1, Neurofilament protein heavy polypeptide, Neurofilament protein light polypeptide, Alipoprotein E		
Immunogen:	Pellet of pig brain cold stable proteins after microtubule depolymerization		
Isotype:	Mouse IgG2a		
Clone:	NF-09		
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.		
Function:	Provides flexible extension (along with NF-H) to link neurofilaments to each other and to other cytoplasmic proteins		
Reconstitution:	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.		
Reactivity:	All species, reacts with both phosphorylated and non-phosphorylated forms		
Applications:	Western Blot, IHC		



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

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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