

NEFH

Mouse Anti-Human Neurofilament heavy polypeptide Clone NF-01 mAb

Catalog No.	CSI14452 CSI14453	Quantity:	25 µg 100 µg
Alternate Names:	NFH, neurofilament triplet H protein, neurofilament, heavy polypeptide 200kDa		
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.		
Concentration:	0.5 mg/ml		
Modification:	Phosphorylation		
Function:	Provides flexible extension (along with NF-M) to link neurofilaments to each other and to other cytoplasmic proteins		
Distribution:	Cytoplasmic protein, neuronal cells (large axons)		
Structure:	Contains four coiled-coil core domains, in most vertebrates NF-H forms interacts with NF-M (medium chains) and NF-L (light chains), approximately 210 kD. NF-H contains a repetitive sequence motif (Lys-Ser-Pro) repeated more than 40 times.		
Immunogen:	Pellet of pig brain cold stable proteins after microtubule depolymerization		
Isotype:	Mouse IgG1		
Clone:	NF-01		
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. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Interaction:	Syntaxin binding protein 1, Neurofilament protein medium polypeptide, Neurofilament protein light polypeptide		
Reactivity:	All species, reacts with conserved phosphorylated epitope		
Applications:	Western Blot, IHC		



Application Notes:

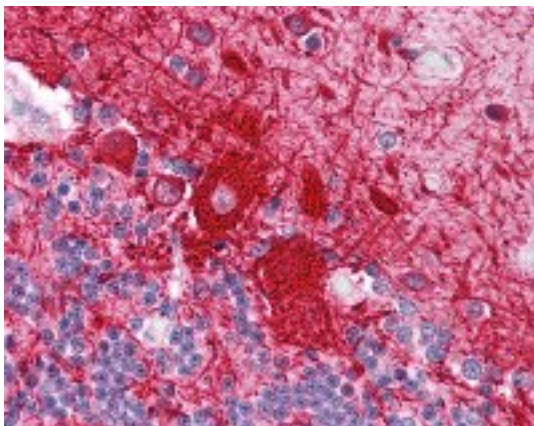
Each lot of this antibody is quality control tested by Western blotting. For Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. For IHC, use a 10 µg/ml dilution of antibody for staining. Antigen retrieval for IHC of formalin-fixed paraffin-embedded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

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

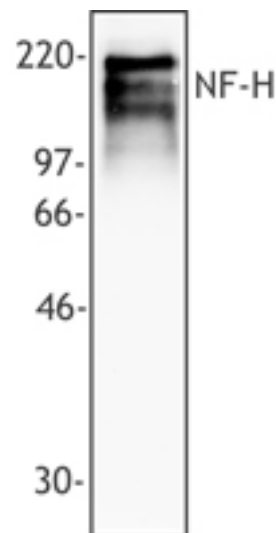
Storage & Stability:

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.



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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