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Purified Mouse Monoclonal to Neurofilament Medium Protein

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Size:	0.1 mg
Clone:	NF-09
Isotype:	Mouse IgG _{2a}
Specificity:	The antibody NF-09 reacts with both phosphorylated and non-phosphorylated form of medium neurofilament protein (160 kDa) of various species.
Immunogen:	Pellet of porcine brain cold stable proteins after depolymerization of microtubules.
Species Reactivity:	Mammalian
Application:	Immunohistochemistry (paraffin sections) Western Blotting Immunocytochemistry Positive tissue: Neuro2A murine cell line Application note: Carnoys fixative 2 x 3 min, blocking 1% glycine + 0.2% gelatin 10 min
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by Protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
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Background:

Neurofilaments (NFs) are a type of intermediate filament (IF) expressed almost exclusively in neuronal cells, and in those cells most prominently in large axons. NFs in most vertebrates are composed of three different polypeptide chains with different molecular weights – neurofilament medium protein (NF-M), high (NF-H) and light protein (NF-L), which share sequence and structural similarity in a coiled-coil core domain, but differ in the length and sequence of their N-termini and more dramatically of their C-termini which in the case of NF-M and NF-H form the flexible extensions that link NFs to each other and to other elements in the cytoplasm. NF-M protein tail-mediated interactions of neurofilaments are critical for size and cytoskeletal architecture of axons, and are mediated, in part, by the highly phosphorylated tail domain of this protein. NF-M phosphorylation and O-GlcNAcylation are regulated reciprocally and affect its translocation and filament formation and function. Antibodies to the various neurofilament subunits are very useful cell type markers since the proteins are among the most abundant of the nervous system, are expressed only in neurons and are biochemically very stable.

References:

*Ohara O, Gahara Y, Miyake T, Teraoka H, Kitamura T: Neurofilament deficiency in quail caused by nonsense mutation in neurofilament-L gene. *J Cell Biol.* 1993 Apr;121(2):387-95. *Rao MV, Campbell J, Yuan A, Kumar A, Gotow T, Uchiyama Y, Nixon RA: The neurofilament middle molecular mass subunit carboxyl-terminal tail domains is essential for the radial growth and cytoskeletal architecture of axons but not for regulating neurofilament transport rate. *J Cell Biol.* 2003 Dec 8;163(5):1021-31. *Deng Y, Li B, Liu F, Iqbal K, Grundke-Iqbal I, Brandt R, Gong CX: Regulation between O-GlcNAcylation and phosphorylation of neurofilament-M and their dysregulation in Alzheimer disease. *FASEB J.* 2008 Jan;22(1):138-45. *Draberova E, Sulimenko V, Kukharskyy V, Draber P: Monoclonal antibody NF-09 specific for neurofilament protein NF-M. *Folia Biol (Praha).* 1999;45(4):163-5.

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