

Mouse Anti-Neurofilament [NF421]: MC0887, MC0887RTU7

Intended Use: For Research Use Only

Description: Neurofilaments (NF) are members of the intermediate filament protein family. These neuron-specific filaments are the major constituents of the axonal cytoskeleton. NFs are composed of three major proteins: NF-H is the heavy molecular weight protein (200 kDa), NF-M the medium (160 kDa) and NF-L the light protein (68kDa). The NF-L and NF-M mRNAs are detected early in the embryonal brain, with a progressive increase in their levels during development, while the NF-H mRNA is barely detectable at embryonal stages but accumulates later in the postnatal brain. This antibody labels neurons of the central and peripheral nervous system, and is a useful for the identification of tumors with neuronal differentiation.

Specifications:

Clone: NF421
Source: Mouse
Isotype: IgG1
Reactivity: Human, mouse, rat, pig, chicken
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt.
Package:

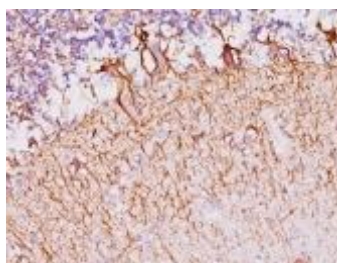
Description	Catalog No.	Size
Neurofilament Concentrated	MC0887	1 ml
Neurofilament Prediluted	MC0887RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Human brain, paraganglioma
Concentrated Dilution: 100-300
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C

Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human cerebellum stained with anti-Neurofilament using DAB

References:

1. Increased prokineticin 2 expression in gut inflammation: role in visceral pain and intestinal ion transport. Watson RP, et al. Neurogastroenterol Motil 24:65-75, e12, 2012.
2. Developmentally regulated markers in the postnatal cervical spinal cord of the opossum Monodelphis domestica. Breckenridge LJ, et al. Brain Res Dev Brain Res 103:47-57, 1997.
3. Cytokeratin and neurofilament in lung carcinomas. van Muijen GN et al. Am J Pathol 116:363-9, 1984.

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