

Mouse Anti-Neurofilament phospho (NF-H) [NE14]: MC0191, MC0191RTU7

Intended Use: For Research Use Only

Description: This antibody reacts with a 200kDa protein, identified as heavy sub-unit of neurofilaments (NF-H). It reacts specifically with the phosphorylated KSP/KEP segment at the C-terminus of the heavy subunit (NF-H) of neurofilaments. After dephosphorylation of neurofilaments with alkaline phosphatase, this antibody no longer binds. Neurofilaments make up the main structural elements of axons and dendrites and are found in neurons, peripheral nerves, and sympathetic ganglion cells. Neurofilaments consist of three major subunits with molecular weights of 68kDa (NF-L), 160kDa (NF-M) and 200kDa (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Specifications:

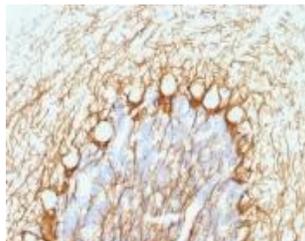
Clone: NE14
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human, mouse, rat, guinea pig, gerbil, cat, pig, rabbit, cow and chicken
 Localization: Cytoplasm
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt.
 Package:

Description	Catalog No.	Size
Neurofilament phospho (NF-H) Concentrated	MC0191	1 ml
Neurofilament phospho (NF-H) Prediluted	MC0191RTU7	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 phospho (NF-H) using DAB

References:

1. Estradiol upregulates voltage-gated sodium channel 1.7 in trigeminal ganglion contributing to hyperalgesia of inflamed TMJ. Bi RY, et al. PLoS One 12:e0178589, 2017.
2. GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. Zonouzi M, et al. Nat Neurosci 18:674-82, 2015.
3. Development of nNOS-positive neurons in the rat sensory and sympathetic ganglia. Masliukov PM, et al. Neuroscience 256C:271-281, 2013.

Doc. 100-MC0191
Rev. A