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Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone NE14]
Catalog # AH11994

Specification

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - Product Information

Application	**,2,4,**
Primary Accession	P12036
Other Accession	4744, 198760
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Chicken, Cow, Guinea Pig, Gerbil, Cat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1**
Calculated MW	**200kDa KDa**

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - Additional Information

Gene ID 4744

Other Names
Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein, NEFH, KIAA0845, NFH

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - Protein Information

Name NEFH

Synonyms KIAA0845, NFH

Function
Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. NEFH has an important function in mature axons that is not subserved by the two smaller NF proteins. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (By similarity).

Cellular Location

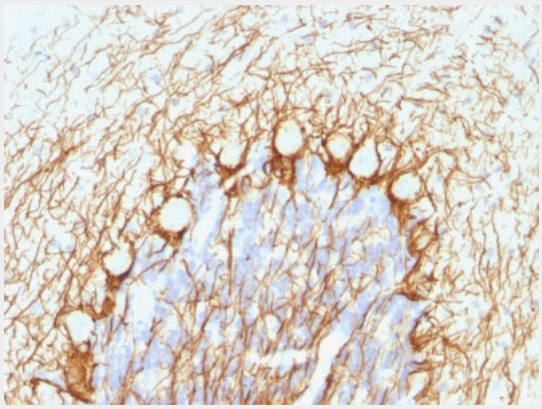
Cytoplasm, cytoskeleton. Cell projection, axon {ECO:0000250|UniProtKB:P19246}

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - Protocols

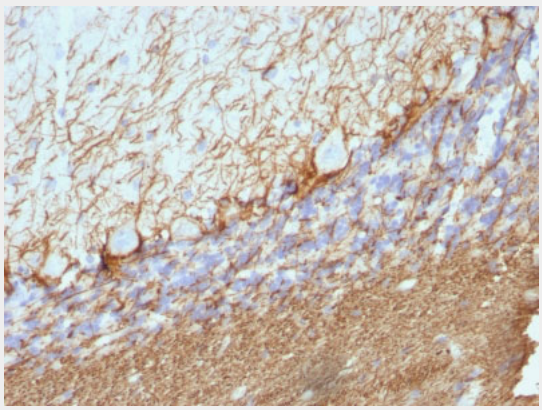
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Cerebellum stained with Neurofilament Monoclonal Antibody (NE14).



Formalin-fixed, paraffin-embedded Rat Cerebellum stained with Neurofilament Monoclonal Antibody (NE14).

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - Background

This MAb 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 Ab 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.

Neurofilament, phospho (NF-H) (Neuronal Marker) Antibody - With BSA and Azide - References

Debus E., et al. Differentiation 25(2), 193-203 (1983). | Gotow T., et al. J. Neuroscience Res. 37(6), 691-713 (1994). | Berglund A.M., et al. J Comp Neurol. 306(3), 393-408 (1991). | Guadano-Ferraz A., , et al. Develop. Brain Res. GOTOBUTTON BM_4_ 56(2), 244-256, (1990). | Obermann W., et al. Eur. J. Biochem 233, 110-115 (1995). | Marx A., et al. Am. J.Pathol. 148(6), 1839-1850 (1996)