

# Neurofilament (H+L) (Neuronal Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM145 ]  
Catalog # AH13005

## Product Information

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<b>Application</b>	IHC, FC
<b>Primary Accession</b>	<a href="#">P12036</a>
<b>Other Accession</b>	<a href="#">4744</a> , <a href="#">198760</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1
<b>Clone Names</b>	SPM145
<b>Calculated MW</b>	111838

## Additional Information

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<b>Gene ID</b>	4744
<b>Other Names</b>	Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein, NEFH, KIAA0845, NFH
<b>Application Note</b>	IHC~~1:100~500 FC~~1:10~50
<b>Storage</b>	Store at 2 to 8°C. Antibody is stable for 24 months.
<b>Precautions</b>	Neurofilament (H+L) (Neuronal Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NEFH
<b>Synonyms</b>	KIAA0845, NFH
<b>Function</b>	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).
<b>Cellular Location</b>	Cytoplasm, cytoskeleton. Cell projection, axon {ECO:0000250 UniProtKB:P19246}

## Background

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This MAb reacts with a 200kDa and 68kDa protein, identified as heavy and light sub-units of neurofilaments (NF-H & NF-L). 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.

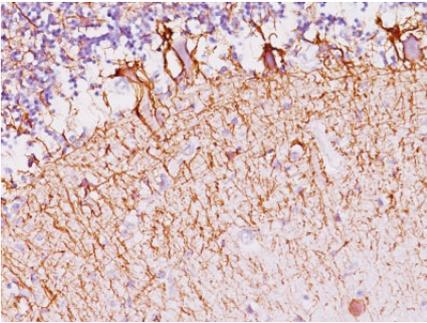
## References

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Ishii M et. al. Fukushima J Med Sci. 2004;50(2):65-74. | Angelides, K.J., et. al. 1989. J. Cell Biol. 108: 1495-1506

## Images

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Formalin-fixed, paraffin-embedded human Cerebellum stained with Neurofilament Monoclonal Antibody (SPM145).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.