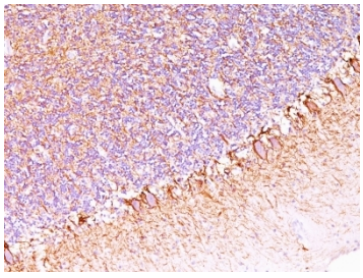
Neurofilament Antibody SPM563 / Heavy chain MAb [clone SPM563] (V9056)

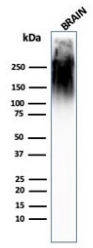
Catalog No.	Formulation	Size
V9056-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V9056-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V9056SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V9056IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM563
Purity	Protein G affinity chromatography
UniProt	P12036
Localization	Cytoplasmic, membranous
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Neurofilament Antibody SPM563 is available for research use only.



Neurofilament Antibody SPM563 IHC: Formalin-fixed, paraffin-embedded human cerebellum stained with Neurofilament Antibody / Heavy chain (clone SPM563).



Western blot testing of human brain lysate with Neurofilament Antibody SPM563.

Description

Neurofilament Antibody SPM563 reacts with a 200kDa protein, identified as heavy sub-unit of neurofilaments (NF-H). 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 cell carcinomas of the lung also express neurofilament.

For additional research on NF-H expression, axonal structure and neurofilament biology, see our Neurofilament Heavy Chain Antibody / Axonal Cytoskeleton Marker page.

Application Notes

The optimal dilution of the Neurofilament Antibody SPM563 for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human recombinant protein was used as the immunogen for this Neurofilament Antibody SPM563.

Storage

Store the Neurofilament Antibody SPM563 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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