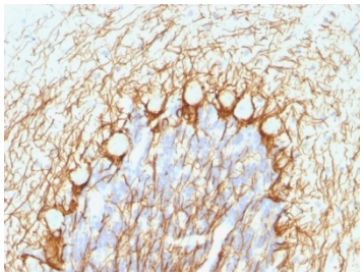
NF-H Antibody (phospho) [clone NE14] (V2759)

Catalog No.	Formulation	Size
V2759-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2759-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2759SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2759IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

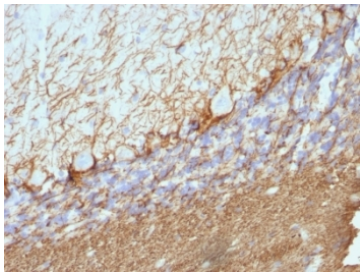
Citations (12)

Bulk quote request

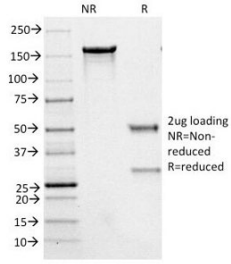
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	NE14
Purity	Protein G affinity chromatography
UniProt	P12036
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 0.5-1ug/10^6 cells Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
Limitations	This NF-H antibody (phospho) is available for research use only.



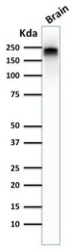
IHC: Formalin-fixed, paraffin-embedded human cerebellum stained with NF-H antibody (NE14).



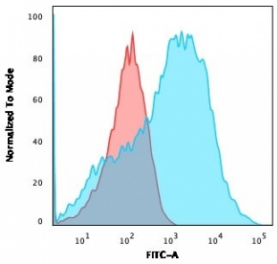
IHC: Formalin-fixed, paraffin-embedded rat cerebellum stained with NF-H antibody (NE14).



SDS-PAGE Analysis of Purified, BSA-Free NF-H Antibody (clone NE14). Confirmation of Integrity and Purity of the Antibody.



Western blot testing of human brain lysate with NF-H antibody (clone NE14).



Flow cytometry testing of permeabilized human HEK293 cells with NF-H antibody (clone NE14); Red=isotype control, Blue= NF-H antibody.

Description

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 cell carcinomas of the lung also express neurofilament.

Application Notes

Optimal dilution of the NF-H antibody (phospho) should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min

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

Crude neurofilament preparation from porcine spinal cord was used as the immunogen for the NF-H antibody (phospho).

Storage

Store the NF-H antibody (phospho) at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).