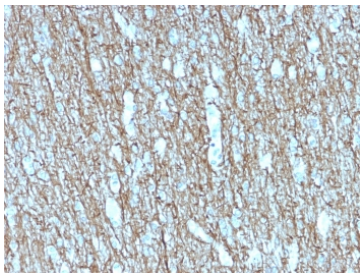
Recombinant Neurofilament Antibody rNF421 / Heavy chain MAb [clone rNF421] (V3643)

Catalog No.	Formulation	Size
V3643-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3643-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3643SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3643IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

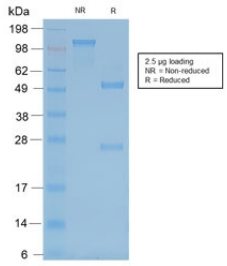
Recombinant MOUSE MONOCLONAL

Bulk quote request

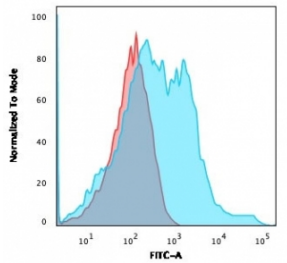
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rNF421
Purity	Protein G affinity
UniProt	P12036
Localization	Cytoplasmic, membranous
Applications	Western blot: 1-2ug/ml Flow cytometry: 0.5-1ug/10^6 cells Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This Recombinant Neurofilament Antibody rNF421 is available for research use only.



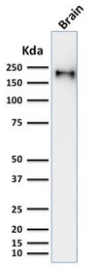
IHC testing of FFPE human brain with Recombinant Neurofilament Antibody rNF421. Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant Neurofilament antibody (clone rNF421) as confirmation of integrity and purity.



Flow cytometry testing of permeabilized human HEK293 cells with recombinant Neurofilament antibody (clone rNF421); Red=isotype control, Blue= recombinant Neurofilament antibody.



Western blot testing of human brain lysate with Recombinant Neurofilament Antibody rNF421.

Description

Recombinant Neurofilament Antibody rNF421 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 oat 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 usable concentrations in the Applications Details are suggestions only. The use of different protocols/secondaries/substrates may require the recombinant Neurofilament antibody to be titered for optimal performance.

1. 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

Recombinant human protein (heavy subunit) was used as the immunogen for the Recombinant Neurofilament Antibody rNF421.

Storage

Store the Recombinant Neurofilament Antibody rNF421 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)

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