

## Product Datasheet

# Recombinant Neurofilament Antibody / Heavy (orb606466)

<b>Catalog Number</b>	orb606466
<b>Category</b>	Antibodies
<b>Description</b>	<p>This MAb 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.</p>
<b>Clonality</b>	Recombinant
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse, Rat
<b>Buffer/Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
<b>Purification</b>	Protein G affinity
<b>Immunogen</b>	Recombinant human protein (heavy subunit) was used as the immunogen for the recombinant Neurofilament antibody.

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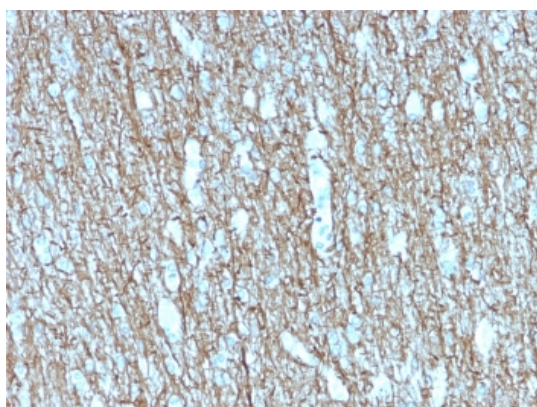
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<b>UniProt ID</b>	<b>P12036</b>
<b>Tested applications</b>	FACS, IHC-P, WB
<b>Dilution range</b>	Western blot: 1-2ug/ml, Flow cytometry: 0.5-1ug/10 <sup>6</sup> cells, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
<b>Application notes</b>	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.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	rNF421
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



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

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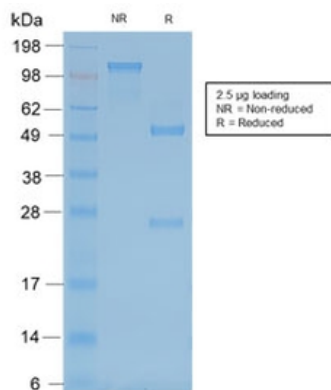
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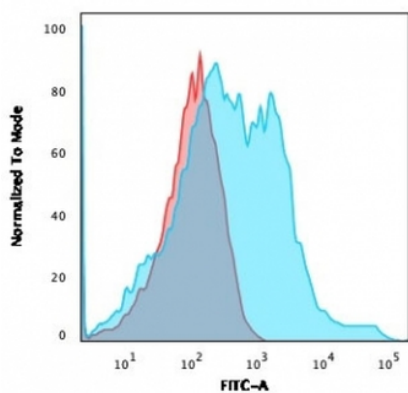
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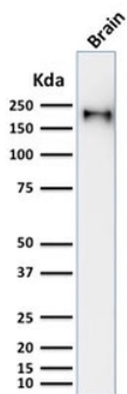
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SDS-PAGE analysis of purified, BSA-free recombinant Neurofilament antibody (clone rNF421) as confirmation of integrity and purity.



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 (clone rNF421).

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