

Product Datasheet

NF-H Antibody (RT97) NBP2-29435

Unit Size: 0.1 mg

Store at 4C.

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NBP2-29435

NF-H Antibody (RT97)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	RT97
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	200 kDa

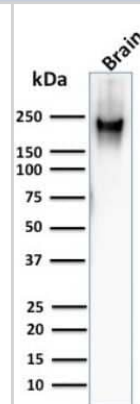
Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33062)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	4744
Gene Symbol	NEFH
Species	Human, Mouse, Rat, Porcine, Chicken
Marker	Neuronal Marker
Specificity/Sensitivity	<p>This monoclonal antibody 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>
Immunogen	Triton-X 100 insoluble protein fraction of rat brain (Uniprot: P12036)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-1ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml
Application Notes	<p>Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.</p> <p>Optimal dilution for a specific application should be determined.</p>

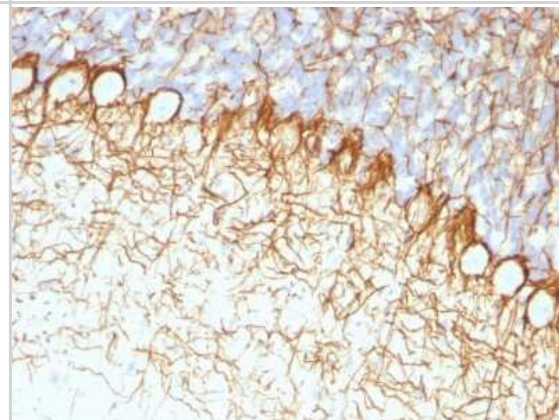


Images

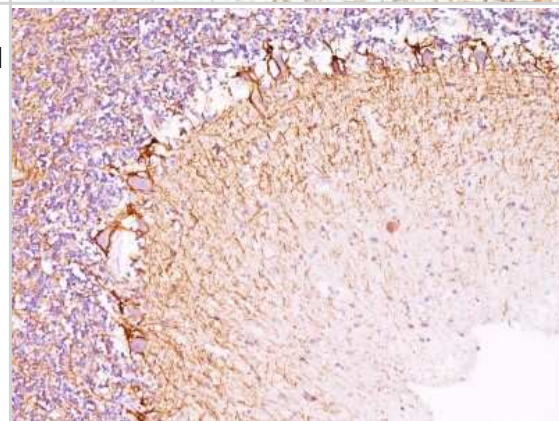
Western Blot: NF-H Antibody (RT97) [NBP2-29435] - Western Blot Analysis of human brain tissue lysate using NF-H Antibody (RT97).



Immunohistochemistry-Paraffin: NF-H Antibody (RT97) [NBP2-29435] - Formalin-fixed, paraffin-embedded Rat Cerebellum stained with NF-H Antibody (RT97).



Immunohistochemistry-Paraffin: NF-H Antibody (RT97) [NBP2-29435] - Formalin-fixed, paraffin-embedded human Cerebellum stained with NF-H Antibody (RT97).



Publications

Jone López-Erauskin, Mariana Bravo-Hernandez, Maximiliano Presa, Michael W Baughn, Ze'ev Melamed, Melinda S Beccari, Ana Rita Agra de Almeida Quadros, Olatz Arnold-Garcia, Aamir Zuberi, Karen Ling, Oleksandr Platoshyn, Elkin Niño-Jara, I Sandra Ndayambaje, Melissa McAlonis-Downes, Larissa Cabrera, Jonathan W Artates, Jennifer Ryan, Anita Hermann, John Ravits, C Frank Bennett, Paymaan Jafar-Nejad, Frank Rigo, Martin Marsala, Cathleen M Lutz, Don W Cleveland, Clotilde Lagier-Tourenne Stathmin-2 loss leads to neurofilament-dependent axonal collapse driving motor and sensory denervation. Nature neuroscience 2024-01-10 [PMID: 37996528]

Ishii M, Miyashita T, Tsuchiya K et al. Histological distribution and ultrastructural features of immunoreactive terminals against RT97, a monoclonal antibody to a 200 kD neurofilament, in the spinal dorsal horn of a rat. Fukushima J Med Sci. 2004-12-01 [PMID: 15779572]



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Products Related to NBP2-29435

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00004744-Q01-10ug	Recombinant Human NF-H GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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