

# Product Datasheet

## NF-H Antibody (NF421) - Azide and BSA Free NBP2-33102

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-33102**

NF-H Antibody (NF421) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	NF421
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	200 kDa

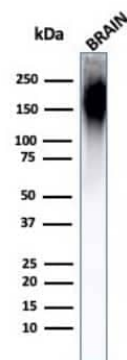
Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-29629).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	4744
Gene Symbol	NEFH
Species	Human, Mouse, Rat, Porcine, Chicken
Marker	Neuronal Marker
Specificity/Sensitivity	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.
Immunogen	Recombinant full-length human NF-H protein (Uniprot: P12036)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	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. Optimal dilution for a specific application should be determined.

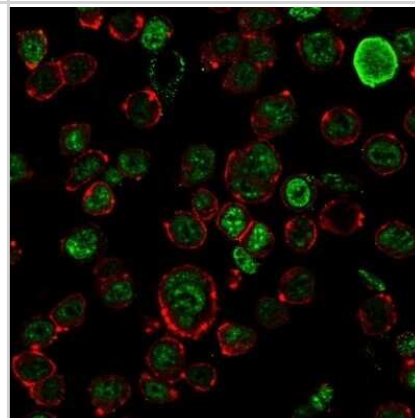


## Images

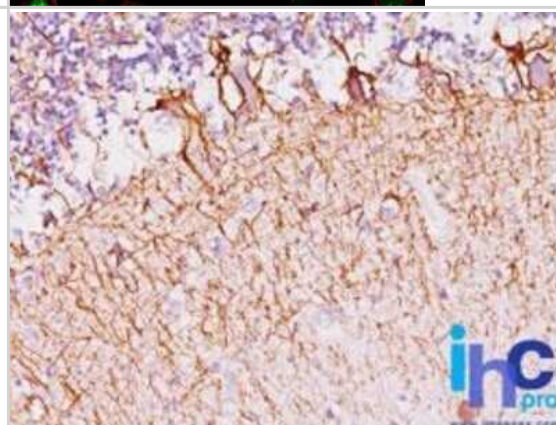
Western Blot: NF-H Antibody (NF421) - Azide and BSA Free [NBP2-33102] - Western Blot Analysis of Human Brain Tissue Lysate using NF-H antibody (NF421).



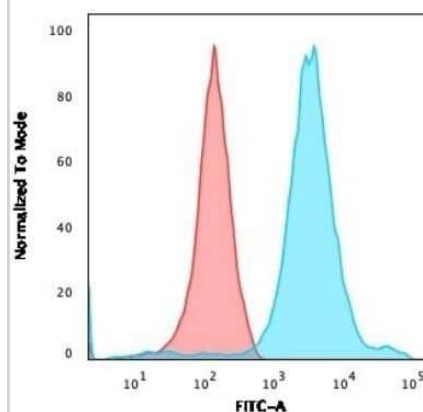
Immunocytochemistry/Immunofluorescence: NF-H Antibody (NF421) - Azide and BSA Free [NBP2-33102] - Immunofluorescence staining of HEK293 cells using NF-H Antibody (NF421) followed by goat anti-Mouse IgG conjugated to CF488 (green). Membrane stained with Phalloidin (Red).



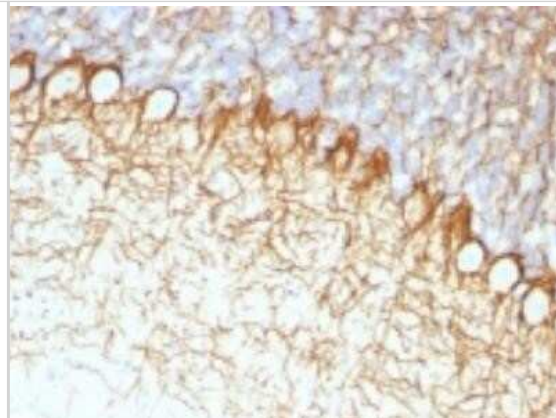
Immunohistochemistry-Paraffin: NF-H Antibody (NF421) - Azide and BSA Free [NBP2-33102] - Formalin-fixed, paraffin-embedded human cerebellum stained with Neurofilament NF421 antibody (1:200), peroxidase-conjugate and DAB chromogen.



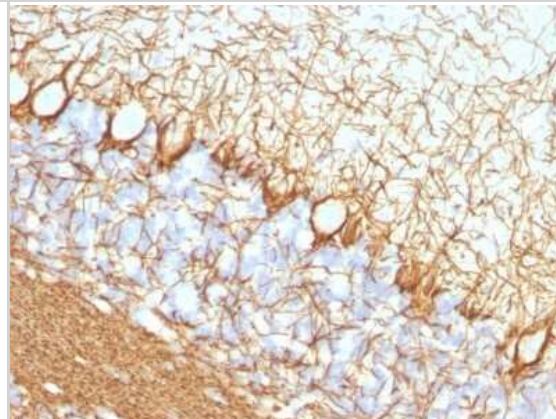
Flow Cytometry: NF-H Antibody (NF421) - Azide and BSA Free [NBP2-33102] - Flow Cytometric Analysis of HEK293 cells using NF-H Antibody (NF421) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).



Immunohistochemistry-Paraffin: NF-H Antibody (NF421) - Azide and BSA Free [NBP2-33102] - Formalin-fixed, paraffin-embedded Rat Cerebellum stained with Neurofilament Monoclonal Antibody (RT-91).



Immunohistochemistry-Paraffin: NF-H Antibody (NF421) - Azide and BSA Free [NBP2-33102] - Formalin-fixed, paraffin-embedded Rat Cerebellum stained with NF-H Antibody (NF421).





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### **Products Related to NBP2-33102**

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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

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### **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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