

# Product Datasheet

## NF-H Antibody NB300-135

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 9

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**NB300-135**

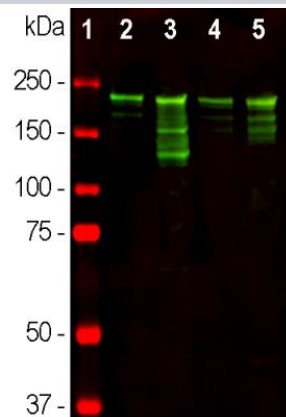
NF-H Antibody

<b>Product Information</b>	
<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Target Molecular Weight</b>	210 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	4744
<b>Gene Symbol</b>	NEFH
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Equine
<b>Marker</b>	Neuronal Marker
<b>Specificity/Sensitivity</b>	Phosphorylated and non-phosphorylated forms of 200kDa Neurofilament Heavy
<b>Immunogen</b>	Purified bovine Neurofilament Heavy protein.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:10000-1:25000, ELISA 1:100-1:2000, Immunohistochemistry 1:1000-1:5000, Immunocytochemistry/Immunofluorescence 1:1000-1:5000, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:1000-1:5000
<b>Application Notes</b>	This 200kDa Neurofilament Heavy Antibody is useful for Western blot, Immunocytochemistry/Immunofluorescence, ELISA and Immunohistochemistry on both paraffin-embedded and frozen sections. In Western blot a band can be seen at around 200kDa corresponding to rodent Neurofilament Heavy. In larger species such as porcine or human, Neurofilament Heavy runs a little slower and can be seen around 210-220kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. Use in In vitro assay reported in scientific literature (PMID 27789413).

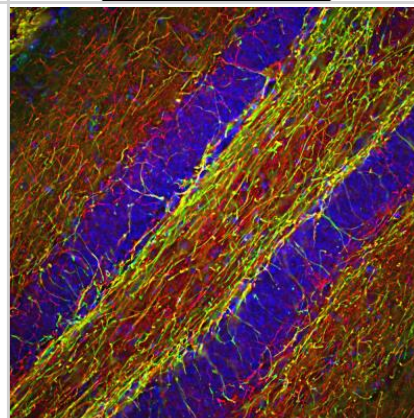


## Images

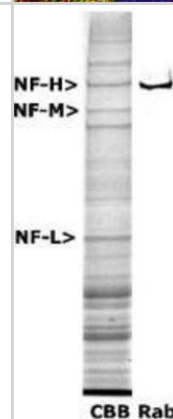
Western Blot: NF-H Antibody [NB300-135] - Different tissue lysates using rabbit pAb to NF-H, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord [4] mouse brain, and [5] mouse spinal cord lysate. Strong band at about 220 kDa corresponds to the phosphorylated axonal form of the NF-H subunit. Smaller proteolytic fragments of NF-H are also detected with RPCA-NF-H antibody.



Immunohistochemistry: NF-H Antibody [NB300-135] - Mouse hippocampus section stained with rabbit pAb to NF-H, dilution 1:2,000 in red, and costained with mouse mAb to myelin basic protein (MBP), dilution 1:5,000 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with above antibodies. The NF-H antibody labels a network of axons of different neurons, while the MBP antibody stains myelin sheath around these axons.



Western Blot: 200kDa Neurofilament Heavy Antibody [NB300-135] - Western blot analysis of 200kDa Neurofilament Heavy expression in rat spinal cord extract. The first lane is Coomassie Brilliant Blue stained and the second lane is probed with rabbit anti-Neurofilament Heavy antibody NB300-135. The NF-H corresponds to a weight of 200kDa.



## Publications

Hutter-Schmid B, Humpel C. Primary mouse brain pericytes isolated from transgenic Alzheimer mice spontaneously differentiate into a CD11b+ microglial-like cell type in vitro *Exp. Gerontol.* Aug 9 2018 12:00AM [PMID: 30099090] (WB, Mouse)

Ermilov AN, Kumari A, Li L et al. Maintenance of Taste Organs Is Strictly Dependent on Epithelial Hedgehog/GLI Signaling. *PLoS Genet.* Nov 1 2016 12:00AM [PMID: 27893742] (WB, Mouse)

Skrzypczyk A, Giri S, Bader A. Generation of induced pluripotent stem cell line from foreskin fibroblasts *Stem Cell Research* Sep 15 2016 12:00AM [PMID: 27789413] (In vitro, Human)

Kumari A, Ermilov An, Allen BI et al. Hedgehog pathway blockade with the cancer drug LDE225 disrupts taste organs and taste sensation. *J. neurophysiol.* 2014 Nov 12 [PMID: 25392175]

From R, Eilam R, Bar-Lev DD et al. Oligodendrogenesis and myelinogenesis during postnatal development effect of glatiramer acetate. *Glia* 2014 Feb 13 [PMID: 24481644] (IHC-P, Mouse)

O'Donnell LA, Agrawal A, Sabnekar P et al. Apelin, an endogenous neuronal peptide, protects hippocampal neurons against excitotoxic injury *J Neurochem.* 2007 Sep [PMID: 17767704] (ICC/IF, Rat)

Liu HX, Ermilov A, Grachtchouk M et al. Multiple Shh signaling centers participate in fungiform papilla and taste bud formation and maintenance. *Dev Biol* 2013 Aug 2 [PMID: 23916850] (IHC, Mouse)

O'Donnell, LA et al. Human immunodeficiency virus (HIV)-induced neurotoxicity roles for the NMDA receptor subtypes. *J Neurosci*; 26:981-990. 2006 [PMID: 16421318] (WB, Human)

Elan D Louis, Karen, Rachel Babij, ETTY Cortes, Ronald K Liem, Jean-Paul G Vonsattel, Phyllis L Faust. Neurofilament Protein Levels: Quantitative Analysis in Essential Tremor Cerebellar Cortex, . *Neuroscience Letters*, Available online , 10.1016/j.neulet.2012.04.054. 2012 may4. [PMID: 22561033] (WB, IHC, Human)





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### **Products Related to NB300-135**

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NBP2-65371	NF-H Knockout HeLa Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7156	Goat anti-Rabbit IgG (H+L) Secondary Antibody
NBP2-24891	Rabbit IgG Isotype Control

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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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