

# Product Datasheet

## NF-H Antibody - BSA Free NB300-217

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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**NB300-217**

NF-H Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<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>	0.02% Sodium Azide
<b>Isotype</b>	IgY
<b>Purity</b>	IgY purified
<b>Buffer</b>	Supplied as a concentrated total IgY preparation from egg yolk, dialyzed against PBS with added preservative.
<b>Target Molecular Weight</b>	200-220 kDa

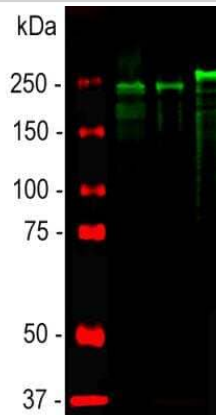
Product Description	
<b>Description</b>	<p>This antibody is supplied as a concentrated total IgY preparation derived from egg yolk. Production involves an initial organic extraction to remove lipids and lipoproteins, followed by salt fractionation of the aqueous phase to precipitate and enrich the IgY fraction. The material is then extensively dialyzed against PBS, and preservative is added during final formulation.</p> <p>Please note that the exact concentration of target-specific IgY cannot be determined, as the final preparation contains both antigen-specific IgY and non-immune IgY.</p>
<b>Host</b>	Chicken
<b>Gene ID</b>	4744
<b>Gene Symbol</b>	NEFH
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Canine, Equine, Feline
<b>Reactivity Notes</b>	Feline reactivity reported in verified customer review. Feline reactivity reported in scientific literature (PMID:33091431).
<b>Marker</b>	Neuronal Marker
<b>Specificity/Sensitivity</b>	Reacts very strongly with NF-H KSP type phosphorylated repeats. Reactivity with non-phosphorylated KSP sequences is orders of magnitude weaker.
<b>Immunogen</b>	Native NF-H (phosphorylated) purified from bovine spinal cord.
<b>Notes</b>	Chicken products cannot be exported to Canada.

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating
<b>Recommended Dilutions</b>	Western Blot 1:100000, ELISA, Immunohistochemistry 1:20000, Immunocytochemistry/ Immunofluorescence 1:20000, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating 1:5000

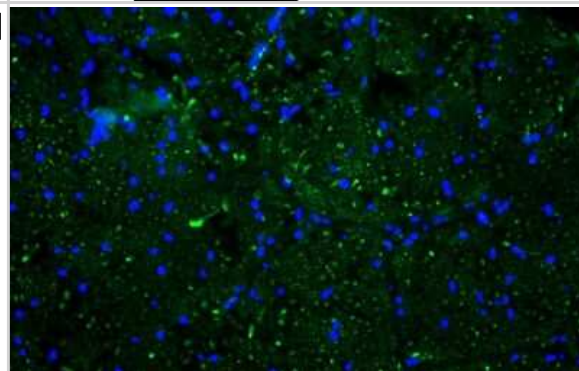


## Images

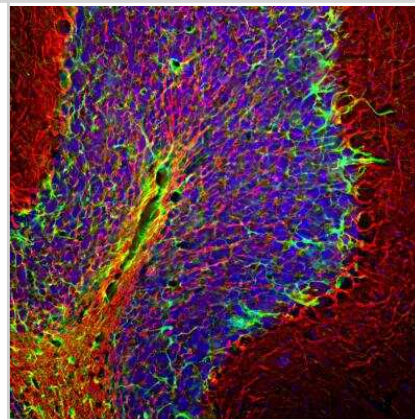
Western Blot: NF-H Antibody [NB300-217] - Analysis of spinal cord lysates from different species using chicken pAb to NF-H, NB300-217, dilution 1:20,000 in green: [1] protein standard (red), [2] rat, [3] mouse, and [4] cow spinal cord. Strong band at about 200-220kDa corresponds to the phosphorylated form of NF-H. The protein from different species is known to have different SDS-PAGE molecular weights, with large species generally expressing larger proteins. Smaller proteolytic fragments of NF-H are also detected in spinal cord preparations with this antibody. The antibody does not recognize non-phosphorylated forms of NF-H.



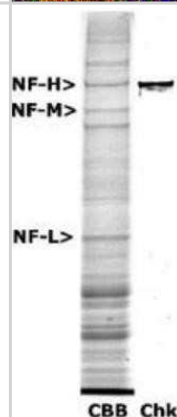
Immunocytochemistry/Immunofluorescence: NF-H Antibody [NB300-217] - Imaging of Feline optic nerve at antibody dilution 1:5000. This image was submitted via customer Review.



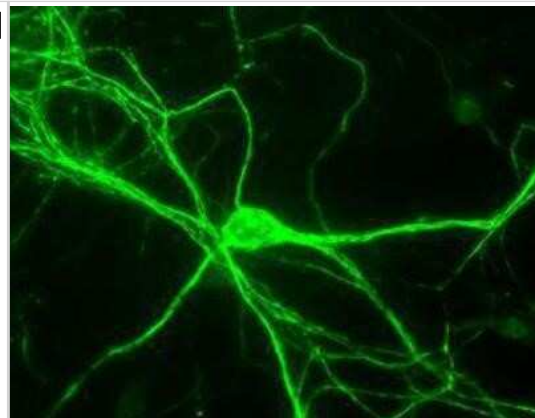
Immunohistochemistry Free-Floating: NF-H Antibody [NB300-217] - Analysis of a rat cerebellum section stained with NF-H antibody, dilution 1:5,000 (Red), and costained with rabbit GFAP pAb, dilution 1:5,000 (Green). DAPI staining of nuclear DNA (Blue). Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24hrs, cut to 45uM, and free floating sections were stained with above antibodies. The NF-H antibody labels network of axons of different neurons, while the GFAP antibody stains astrocytes and other glial cells.



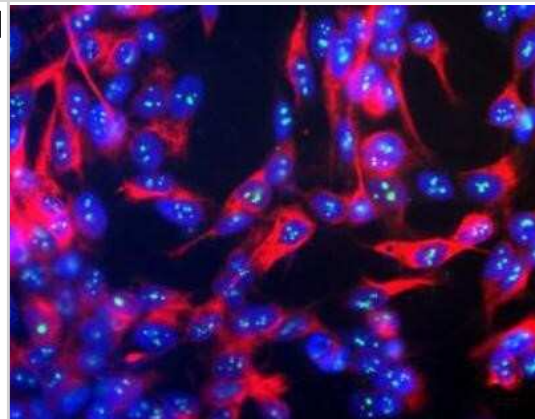
Western Blot: NF-H Antibody [NB300-217] - Analysis of 200kDa Neurofilament Heavy expression in rat spinal cord extract. The first lane is Coomassie Brilliant Blue stained and the second lane is probed with chicken anti-Neurofilament Heavy antibody NB300-217.



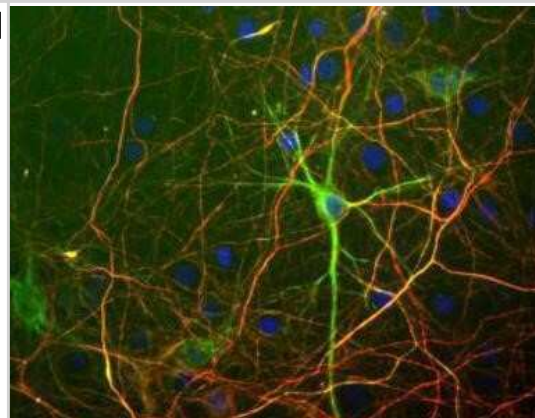
Immunocytochemistry/Immunofluorescence: NF-H Antibody [NB300-217]  
 - Rat neurons stained with 200kDa Neurofilament Heavy Antibody NB300-217.



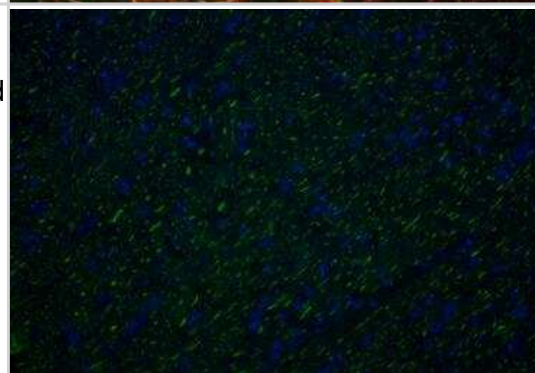
Immunocytochemistry/Immunofluorescence: NF-H Antibody [NB300-217]  
 - SH-SY5Y cells stained with 200kDa Neurofilament Heavy Antibody NB300-217 (red) and Fibrillarin Antibody NB300-269 (green). Nuclear DNA is stained with Hoechst dye (blue).



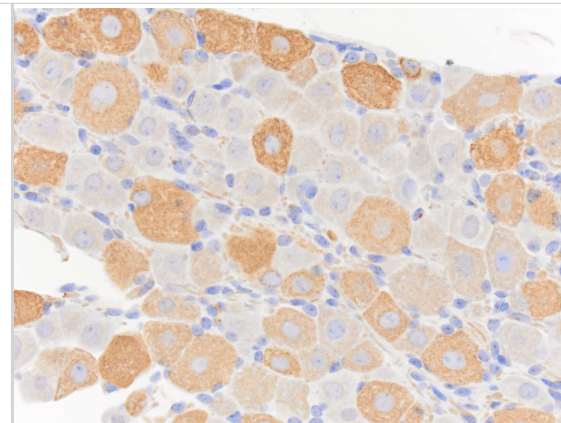
Immunocytochemistry/Immunofluorescence: NF-H Antibody [NB300-217]  
 - Mixed rat neuron/glial cultures stained with Neurofilament Light (NF-L) antibody NBP1-05217 [green] and Neurofilament Heavy (NF-H) antibody NB300-217 [red]. Blue is a DNA stain. NB300-217 binds primarily to the phosphorylated axonal forms of NF-H, in contrast to NBP1-05217 which stains both axonal and dendritic/perikaryal neurofilaments. The surrounding axonal profiles are orange due to staining of both the NF-H and NF-L antibodies.



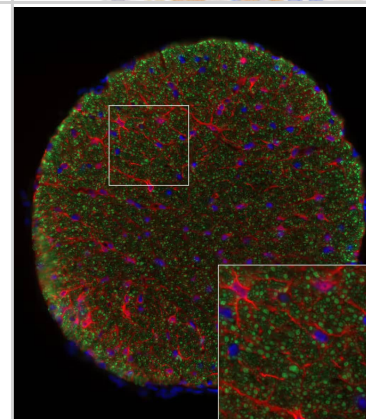
Immunohistochemistry-Frozen: NF-H Antibody [NB300-217] - Canine optic nerve, antibody specifically labelled the axons (Green). Blue is DAPI. Image taken with an epifluorescent microscope and was incubated at 1:10000 for 1hr at RT.. Image from verified customer review.



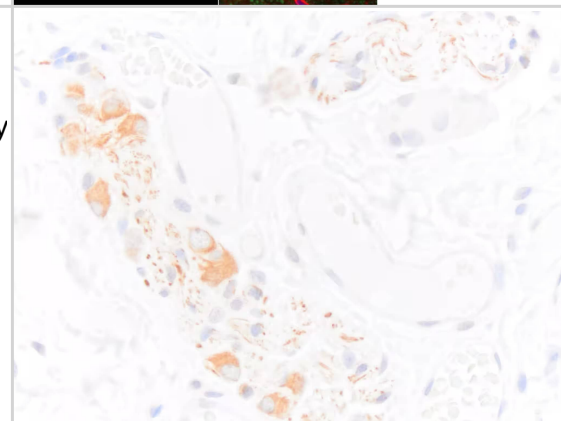
Immunohistochemistry-Paraffin: NF-H Antibody [NB300-217] - NF-H immunoreactivity in a FFPE section of mouse trigeminal ganglion. Antibody was diluted 1 to 2000 and left on sections for 1h at room temperature. Image from verified customer review.



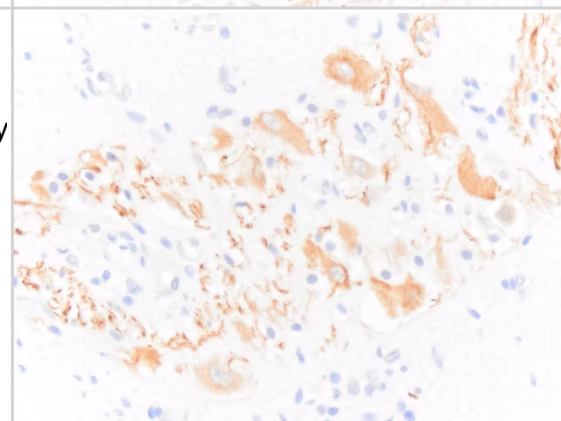
Immunohistochemistry-Frozen: Chicken Polyclonal NF-H Antibody [NB300-217] - Fixed frozen section of mouse optic nerve showing neurofilament heavy NB300-217 in green and S100B in red. NB300-217 was diluted 1 in 4000 and was left on tissue sections overnight at room temperature. Primary was detected with donkey anti chicken conjugated to Alexa 488. Image from a verified customer review.



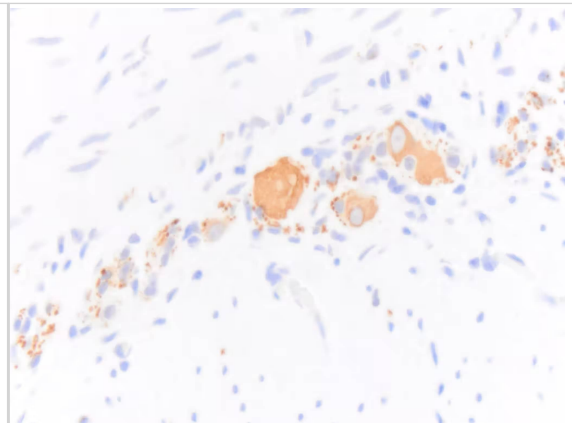
Immunohistochemistry-Paraffin: Chicken Polyclonal NF-H Antibody [NB300-217] - FFPE section of canine cecum showing NF-H NB300-217 immunoreactivity in enteric neurons. Primary antibody was diluted 1 in 2000 and left on tissue sections for 30m at room temperature. Secondary was donkey anti chicken HRP. Image from a verified customer review.



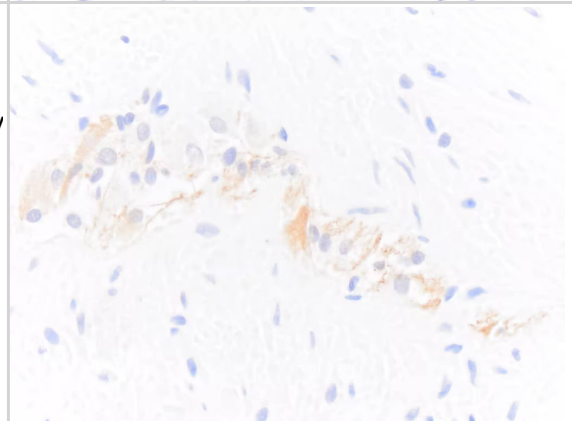
Immunohistochemistry-Paraffin: Chicken Polyclonal NF-H Antibody [NB300-217] - FFPE section of feline colon showing NF-H NB300-217 immunoreactivity in enteric neurons. Primary antibody was diluted 1 in 2000 and left on tissue sections for 30m at room temperature. Secondary was donkey anti chicken HRP. Image from a verified customer review.



Immunohistochemistry-Paraffin: Chicken Polyclonal NF-H Antibody [NB300-217] - FFPE section of equine jejunum showing NF-H NB300-217 immunoreactivity in enteric neurons. Primary antibody was diluted 1 in 2000 and left on tissue sections for 30m at room temperature. Secondary was donkey anti chicken HRP. Image from a verified customer review.



Immunohistochemistry-Paraffin: Chicken Polyclonal NF-H Antibody [NB300-217] - FFPE section of human colon showing NF-H NB300-217 immunoreactivity in enteric neurons. Primary antibody was diluted 1 in 2000 and left on tissue sections for 30m at room temperature. Secondary was donkey anti chicken HRP. Image from a verified customer review.



## Publications

Tran E, Stuedemann S, Ridlon M et al. Genetic tools that target mechanoreceptors produce reliable labeling of bladder afferents and altered mechanosensation *American journal of physiology. Renal physiology* 2025-03-01 [PMID: 39611874]

Ho BL, Goh Q, Nikolaou S et al. NRG/ErbB signaling regulates neonatal muscle growth but not neuromuscular contractures in neonatal brachial plexus injury *FEBS Letters* 2021-03-01 [PMID: 33421114] (Immunohistochemistry-Frozen, Mouse)

Shen M, Chen Z, Ming M, Cheng Z et Al. The acetylome of adult mouse sciatic nerve *J Neurochem* 2022-05-19 [PMID: 35585794]

Watson SS, Zomer A, Fournier N, Lourenco J et Al. Fibrotic response to anti-CSF-1R therapy potentiates glioblastoma recurrence *Cancer Cell* 2024-09-10 [PMID: 39255775]

Kerkenberg N, Wachsmuth L, Zhang M Et al. Brain microstructural changes in mice persist in adulthood and are modulated by the palmitoyl acyltransferase ZDHHC7 *The European journal of neuroscience* 2021-08-06 [PMID: 34355442]

Jennifer Mecklenburg, Sergey A. Shein, Mostafa Malmir, Anahit H. Hovhannisyan, Korri Weldon, Yi Zou, Zhao Lai, Yu-Fang Jin, Shivani Ruparel, Alexei V. Tumanov, Armen N. Akopian Transcriptional profiles of non-neuronal and immune cells in mouse trigeminal ganglia *Frontiers in Pain Research* 2023-10-31 [PMID: 38028432]

Runkel MT, Tarabishi A, Shay-Winkler K et al. The role of sympathetic innervation in neonatal muscle growth and neuromuscular contractures *The FEBS journal* 2023-07-18 [PMID: 37462535]

Jagadeeshaprasad MG, Govindappa PK, Nelson AM et al. 4-Aminopyridine Induces Nerve Growth Factor to Improve Skin Wound Healing and Tissue Regeneration *Biomedicines* 2022-07-08 [PMID: 35884953]

Oikawa K, Teixeira LBC, Keikhosravi A et al. Microstructure and resident cell-types of the feline optic nerve head resemble that of humans *Exp Eye Res* 2020-10-19 [PMID: 33091431] (ICC/IF, Feline)

Yamamoto H, Yamanashi Y, Takada T et al. Controlling the dose-dependent, synergistic and temporal effects of NGF and GDNF by encapsulation in PLGA microparticles for use in nerve guidance conduits for the repair of large peripheral nerve defects *J Control Release* 2019-05-02 [PMID: 31054993] (IHC-P, Rat)

Thai TQ, Nguyen HB, Sui Y et al. Interactions between mitochondria and endoplasmic reticulum in demyelinated axons. *Med Mol Morphol.* 2018-11-17 [PMID: 30448927] (Mouse)

Nikolaou S, Hu L, Cornwall R. Afferent Innervation, Muscle Spindles, and Contractures Following Neonatal Brachial Plexus Injury in a Mouse Model. *J Hand Surg Am* 2015-10-01 [PMID: 26319770] (IHC-Fr, Mouse)





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### **Products Related to NB300-217**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody
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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