

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.

www.novusbio.com



technical@novusbio.com

Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-135

Updated 8/29/2017 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB300-135



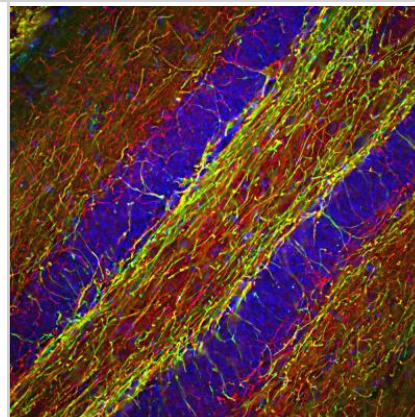
NB300-135

NF-H Antibody

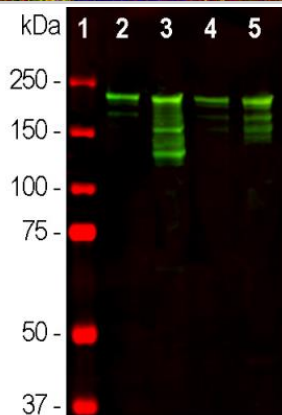
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	210 kDa
Product Description	
Host	Rabbit
Gene ID	4744
Gene Symbol	NEFH
Species	Human, Mouse, Rat, Porcine, Bovine, Feline
Reactivity Notes	Human, mouse, rat, bovine, porcine and feline. Most likely to react with all mammals.
Marker	Neuronal Marker
Specificity/Sensitivity	Phosphorylated and non-phosphorylated forms of 200kDa Neurofilament Heavy
Immunogen	Purified bovine Neurofilament Heavy protein.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In vitro assay
Recommended Dilutions	Western Blot 1:10000, ELISA 1:100-1:2000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:1000, Immunohistochemistry-Paraffin 1:1000, Immunohistochemistry-Frozen 1:1000, In vitro assay
Application Notes	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

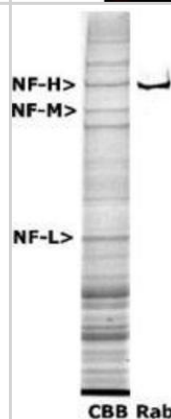
Immunohistochemistry: NF-H Antibody [NB300-135] - Mouse hippocampus section stained with rabbit pAb to NF-H, dilution 1:2,000 in red, and costained with mouse mAb to myelin basic protein (MBP), dilution 1:5,000 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion with 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: 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.



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

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)





Novus Biologicals USA

8100 Southpark Way, A-8
Littleton, CO 80120
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Novus Biologicals Canada

461 North Service Road West, Unit B37
Oakville, ON L6M 2V5
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada@novusbio.com

Novus Biologicals Europe

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

Products Related to NB300-135

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
H00004744-Q01-10ug	Recombinant Human NF-H 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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB300-135

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

