Product Datasheet

NF-M Antibody
NB300-133

Unit Size: 0.1 ml

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

Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-133

Updated 11/18/2014 v.20.1

NB300-133

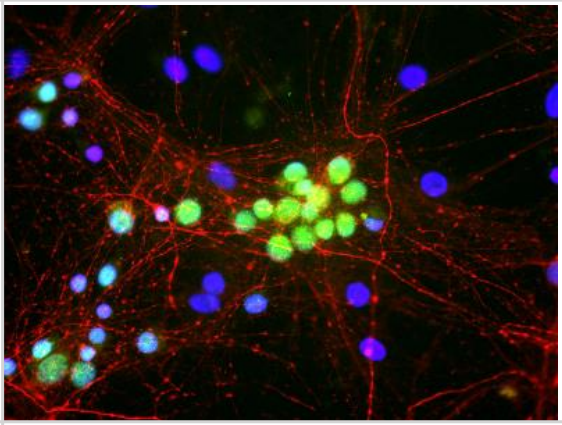
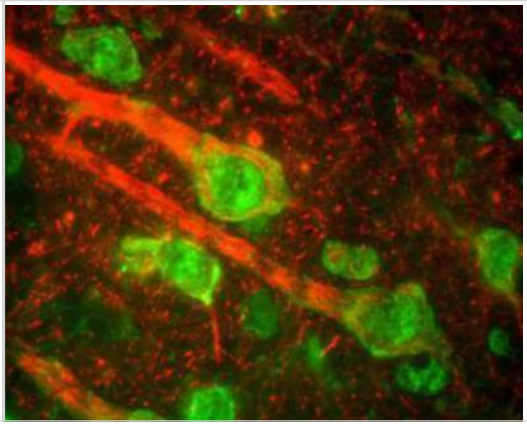
NF-M Antibody

Product Information	
Unit Size	0.1 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	No Preservative
Purity	Whole antisera
Target Molecular Weight	160 kDa

Product Description	
Host	Rabbit
Gene ID	4741
Gene Symbol	NEFM
Species	Human, Mouse, Rat, Avian, Bovine, Feline, Porcine
Species Reactivity	Human, mouse, rat, avian, bovine, feline and porcine. Predicted to react with all mammals.
Marker	Neuronal Marker
Specificity/Sensitivity	Specifically recognizes the evolutionarily conserved extreme C-terminal region of Neurofilament Medium (~145-170kDa).
Immunogen	Recombinant rat Neurofilament Medium fusion protein corresponding to the C-terminus [UniProt# P12839]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:500-1:1000, Immunohistochemistry 1:1000-1:5000, Immunohistochemistry-Frozen 1:1000-1:5000, Immunohistochemistry-Paraffin 1:1000-1:5000, Western Blot 1:5000-1:10000
Application Notes	This 160kDa Neurofilament Medium Antibody is useful for Western blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, and Immunohistochemistry-Frozen. In Western blot a band can be seen around 145kDa corresponding to rodent Neurofilament Medium. Human and bovine Neurofilament Medium run a little slower and can be seen at about 160kDa.

Images

Western Blot: 160kDa Neurofilament Medium Antibody [NB300-133] - Western blot analysis of 160kDa Neurofilament Medium expression on whole rat cerebellum homogenate using NB300-133.	
Immunocytochemistry/Immunofluorescence: NF-M Antibody [NB300-133] - Mixed neuron/glia cultures stained with NB300-133 (red) and NBP2-25141 (green), Novus' mouse monoclonal antibody to Fox1, an mRNA binding protein closely related to Fox3/NeuN. The RPCA-NF-M antibody stains axonal, dendritic and perikaryal profiles of neurons cleanly and specifically. Like antibody to Fox3/NeuN, the Fox1 antibody binds to the nuclei of neurons only. DNA is shown in blue with the DAPI stain.	
Immunohistochemistry-Frozen: NF-M Antibody [NB300-133] - IHC-Fr staining of cerebral cortex section from Rat with NF-M antibody (red) at 1:5000 dilution. This immunostaining reveals the perikarya of pyramidal neurons and dendrites as well as axons surrounding the neurons. The green channel shows staining with a monoclonal antibody to beta-adrendergic receptor kinase 1.	

Publications

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)

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)

Ziv-Polat O, Skaat H, Shahar A, Margel S. Novel magnetic fibrin hydrogel scaffolds containing thrombin and growth factors conjugated iron oxide nanoparticles for tissue engineering Int J Nanomedicine 2012 [PMID: 22419873] (ICC/IF, Rat)

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, Human)

Skaat H, Ziv-Polat O, Shahar A, Margel S. Enhancement of the growth and differentiation of nasal olfactory mucosa cells by the conjugation of growth factors to functional nanoparticles. Bioconjug Chem;22(12):2600-10. 2011 Dec 21. [PMID: 22029397] (ICC/IF, Rat)

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Products Related to NB300-133

NBL1-13578	NF-M Overexpression Lysate (Native)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
NB7160	Goat anti-Rabbit IgG Antibody [HRP]
NB300-141	GFAP Antibody

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 guarantee, please visit www.novusbio.com/guarantee.