NEFM Monoclonal Antibody (RMO-270)

Product Details	
Size	200 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Zebrafish, Mouse, Human, Chicken, Xenopus
Host/Isotope	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	RMO-270
Conjugate	Unconjugated
Immunogen	Rat neurofilaments
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2532998

Applications	Tested	Dilution	Published
Immunohistochemistry (Frozen) (IHC (F))	-	1:1.500	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1:1000	3 Publications
Immunohistochemistry (IHC)	✓	5-10 µg/mL	21 Publications
Flow Cytometry (Flow)	-	1:5000	1 Publication
Immunocytochemistry (ICC)	-		6 Publications
Immunofluorescence (IF)	✓	Assay Dependent	8 Publications
Miscellaneous PubMed (MISC)	-	1:1000	7 Publications
ELISA (ELISA)	✓	0.1-0.5 µg/mL	
Immunoprecipitation (IP)	✓	2-5 µg	
Western Blot (WB)	✓	0.5-1 µg/mL	

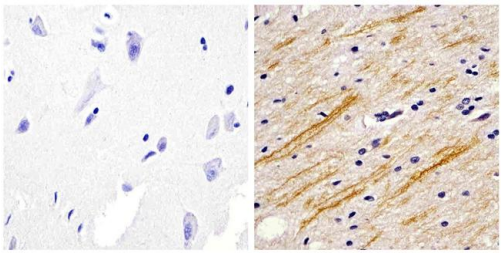
Product Specific Information

The cloning partner for this antibody is Sp/2.

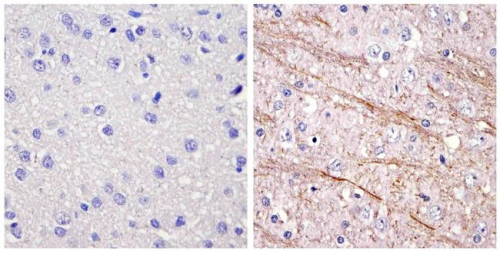
This antibody reacts with the 160 kD polypeptide subunit of human neurofilament. It specifically recognizes a phosphate-independent epitope in the tail (carboxy) domain of NF-M of most vertebrates and invertebrates.

This antibody is suitable for immunohistochemical staining of Bouin's and alcohol-fixed paraffin-embedded or frozen tissue sections. To stain, incubate 30-60 minutes at room temperature or overnight at 4°C.

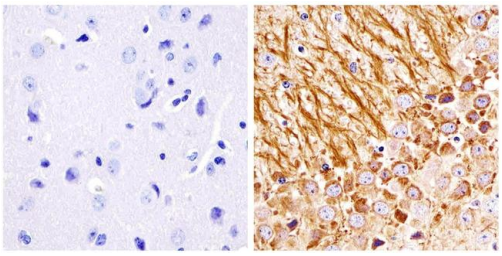
Product Images For NEFM Monoclonal Antibody (RMO-270)



NEFM Antibody (13-0700) in IHC
Immunohistochemistry analysis of the neurofilament medium chain showing staining in the filaments of paraffin-embedded human brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0) and microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Neurofilament medium chain monoclonal antibody (Product # 13-0700) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



NEFM Antibody (13-0700) in IHC
Immunohistochemistry analysis of the neurofilament medium chain showing staining in the filaments of paraffin-embedded rat brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0) and microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Neurofilament medium chain monoclonal antibody (Product # 13-0700) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



NEFM Antibody (13-0700) in IHC
Immunohistochemistry analysis of the neurofilament medium chain showing staining in the filaments of paraffin-embedded mouse brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0) and microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Neurofilament medium chain monoclonal antibody (Product # 13-0700) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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48 References

Immunohistochemistry (Frozen) (2)

Nature communications

Motor neurons control blood vessel patterning in the developing spinal cord.

"130700 was used in immunohistochemistry - frozen section to identify a novel mechanism of neuro-vascular communication to control vascular development in the spinal cord"

Authors: Himmels P,Paredes I,Adler H,Karakatsani A,Luck R,Marti HH,Ermakova O,Rempel E,Stoeckli ET,Ruiz de Almodóvar C

Species
Mouse

Dilution
1:1.500

Year
2017

BMC biology

Distinct adhesion-independent functions of -catenin control stage-specific sensory neurogenesis and proliferation.

"13-0700 was used in immunohistochemistry - frozen section to elucidate the contributions of beta-catenin during development of the peripheral nervous system."

Authors: Gay MH,Valenta T,Herr P,Paratore-Hari L,Basler K,Sommer L

Species
Mouse

Dilution
Not Cited

Year
2015

Immunohistochemistry (Paraffin) (3)

Neural development

Regulation of downstream neuronal genes by proneural transcription factors during initial neurogenesis in the vertebrate brain.

"130700 was used in immunohistochemistry - paraffin section to discuss the roles of proneural genes and their effectors during differentiation of the neuronal populations"

Authors: Ware M,Hamdi-Rozé H,Le Friec J,David V,Dupé V

Species
Chicken

Dilution
1:1000

Year
2016

Development (Cambridge, England)

Delamination of cells from neurogenic placodes does not involve an epithelial-to-mesenchymal transition.

"13-0700 was used in immunohistochemistry - paraffin section to elucidate the mechanism underlying the delamination of cells from the epibranchial placodal ectoderm"

Authors: Graham A,Blentic A,Duque S,Begbie J

Species
Not Applicable

Dilution
1:10,000

Year
2007

View more IHC (P) references on thermofisher.com

More applications with references on thermofisher.com

IHC (21) Flow (1) ICC (6) IF (8) MISC (7)