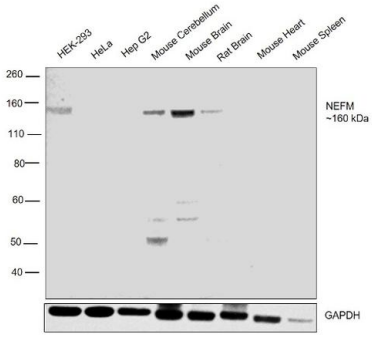
NEFM Monoclonal Antibody (RMO 14.9)

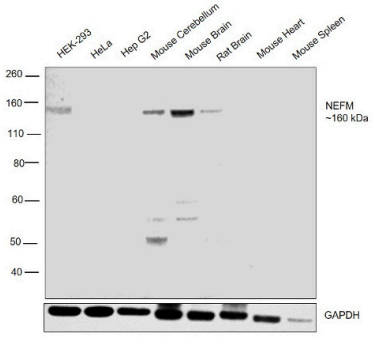
Product Details	
Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Rabbit, Rat
Published Species	Rat, Pig, Rodent, Sheep, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	RMO 14.9
Conjugate	Unconjugated
Immunogen	Rat NF-M.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533154

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	1:50 - 1:100	-
ELISA (ELISA)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	2 Publications

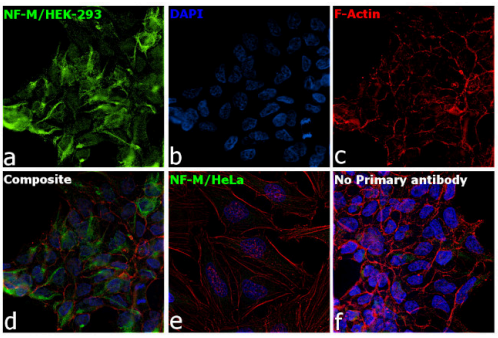
Product Images For NEFM Monoclonal Antibody (RMO 14.9)



NEFM Antibody (34-1000) in WB
Western blot was performed using Anti-NEFM Monoclonal Antibody (RMO 14.9) (Product # 34-1000) and a 160 kDa band corresponding to NEFM was observed in HEK-293 cell line, Mouse Cerebellum, Rat Brain but not in HeLa, Hep G2 cell line, Mouse Heart and Mouse Spleen which are reported to be negative. Membrane extracts (30 µg lysate) of HEK-293 (Lane 1), HeLa (Lane 2), Hep G2 (Lane 3), tissue extracts of Mouse Cerebellum (Lane 4), Mouse Brain (Lane 5), Rat Brain (Lane 6), Mouse Heart (Lane 7) and Mouse Spleen (Lane 8) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (2ug/mL) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



NEFM Antibody (34-1000)
Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues owing to their inherent genetic constitution. The expression was observed in HEK-293, Mouse Cerebellum, Mouse Brain, Rat Brain and not in HeLa, Hep G2, Mouse Heart and Mouse Spleen using NEFM Polyclonal Antibody (Product # 34-1000) in western blot. {RE}



NEFM Antibody (34-1000) in ICC/IF
Immunofluorescence analysis of NF-M was performed using 70% confluent log phase HEK-293 and HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. HEK-293 cells were labeled with NF-M Mouse Monoclonal Antibody (Product # 34-1000) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image of HEK-293 showing cytoskeletal (intermediate filaments) localization. Panel e represents the merged image of HeLa cells showing no expression for NF-M protein. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

10 References

Western Blot (1)

Molecular medicine reports

Fasudil may induce the differentiation of bone marrow mesenchymal stem cells into neuronlike cells via the Wnt/catenin pathway.

"34-1000 was used in Western Blotting to investigate the effect of fasudil on the differentiation of mesenchymal stem cells into neuron-like cells."

Authors: Hu Y,Li X,Huang G,Wang J,Lu W

Year
2019

Species
Rat

Dilution
1:2,000

Immunohistochemistry (3)

Behavioural brain research

Long-term cognitive impairment without diffuse axonal injury following repetitive mild traumatic brain injury in rats.

"34-1000 was used in Immunohistochemistry to assess cognitive performance differences in mouse traumatic brain injury models with different time intervals between injury."

Authors: Tadepalli SA,Bali ZK,Bruszt N,Nagy LV,Amrein K,Fazekas B,Büki A,Czeiter E,Hernádi I

Year
2020

Species
Rat

Dilution
1:2000

Brain research

Temporal assessment of traumatic axonal injury in the rat corpus callosum and optic chiasm.

"34-1000 was used in immunohistochemistry to perform a time course to study impaired axoplasmic transport and neurofilament compaction."

Authors: Zakaria N,Kallakuri S,Bandaru S,Cavanaugh JM

Year
2012

Species
Rat

Dilution
1 µg/mL

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (2)

Journal of comparative pathology

Temporal Sequence of Autolysis in the Cerebellar Cortex of the Mouse.

"34-1000 was used in immunohistochemistry - paraffin section to study the cerebellar cortex of the mouse for the temporal sequence of autolysis"

Authors: Finnie JW,Blumbergs PC,Manavis J

Year
2016

Dilution
1:2000

More applications with references on thermofisher.com

IHC (F) (2) **Misc (2)**