

ARG10724
anti-Neurofilament NF-M antibodyPackage: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Neurofilament NF-M
Tested Reactivity	Hu, Ms, Rat, Cow, Hrs, Pig
Predict Reactivity	Chk
Tested Application	ICC/IF, IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Neurofilament NF-M
Antigen Species	Rat
Immunogen	Recombinant fusion protein containing the extreme C-terminal segment of Rat NF-M.
Conjugation	Un-conjugated
Alternate Names	Neurofilament medium polypeptide; Neurofilament 3; Neurofilament triplet M protein; NFM; NF-M; 160 kDa neurofilament protein; NEF3

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000 - 1:2500
	IHC-Fr	1:1000 - 1:2500
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Calculated Mw	102 kDa	

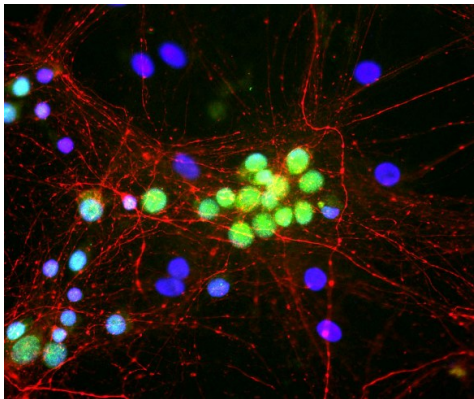
Properties

Form	Liquid
Purification	Unpurified.
Buffer	Serum.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

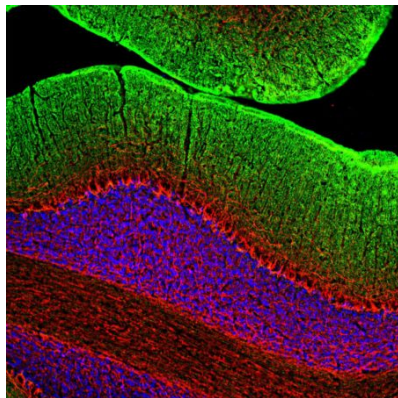
Gene Symbol	Nefm
Gene Full Name	neurofilament, medium polypeptide
Background	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]
Function	Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. [UniProt]
Research Area	Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody; Intermediate Neurofilament antibody

Images



ARG10724 anti-Neurofilament NF-M antibody ICC/IF image

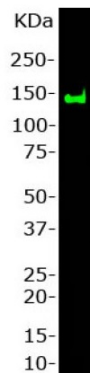
Immunocytochemistry: Rat mixed neuron / glia cultures stained with ARG10724 anti-Neurofilament NF-M antibody (red) and co-stained with Mouse monoclonal antibody [1G10] to Fox1 (green). ARG10724 anti-Neurofilament NF-M antibody stains axonal, dendritic and perikaryal profiles of neurons cleanly and specifically. Like antibody to Fox3 / NeuN, the Fox1 antibody binds to the nuclei of neurons only. DNA is shown in blue with DAPI.



ARG10724 anti-Neurofilament NF-M antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat cerebellum stained with ARG10724 anti-Neurofilament NF-M antibody (red) at 1:2000 dilution and costained with [ARG10715](#) anti-GAP43 antibody [3H14] (green) at 1:2000 dilution. (Sample preparation: Following transcardial perfusion of Rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with the above antibodies.)

The NF-M antibody strongly labels neuronal processes throughout the cerebellum, while the GAP43 antibody stains predominantly synaptic regions in the molecular layer.



ARG10724 anti-Neurofilament NF-M antibody WB image

Western blot: Rat spinal cord stained with ARG10724 anti-Neurofilament NF-M antibody at 1:1000 dilution. A prominent band running with an apparent SDS-PAGE molecular weight of \sim 145 kDa corresponds to rodent NF-M.

ARG10724 anti-Neurofilament NF-M antibody WB image

Western blot: Rat brain, Rat spinal cord, Mouse brain, Mouse spinal cord, Pig brain and Pig spinal cord lysates stained with ARG10724 anti-Neurofilament NF-M antibody (green) at 1:2000 dilution.

