

ARG56066 anti-Neurofilament NF-L antibody [NR-4]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [NR-4] recognizes Neurofilament NF-L
Tested Reactivity	Hu, Rat
Tested Application	FACS, ICC/IF, IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	NR-4
Isotype	IgG1
Target Name	Neurofilament NF-L
Species	Pig
Immunogen	Crude neurofilament preparation from Pig spinal cord.
Conjugation	Un-conjugated
Alternate Names	Neurofilament triplet L protein; 68 kDa neurofilament protein; CMT1F; NF68; NFL; CMT2E; Neurofilament light polypeptide; NF-L; PPP1R110

Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 µg/10 ⁶ cells
	ICC/IF	1 - 2 µg/ml
	IHC-P	0.5 - 1 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
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

Database links

[GeneID: 4747 Human](#)

[GeneID: 83613 Rat](#)

[Swiss-port # P07196 Human](#)

[Swiss-port # P19527 Rat](#)

Gene Symbol

NEFL

Gene Full Name

neurofilament, light polypeptide

Background

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y. [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]

Highlight

Related products:

[Neurofilament NF L antibodies;](#) [Neurofilament NF L Duos / Panels;](#) [Anti-Mouse IgG secondary antibodies;](#)

Related news:

[Neuronal Development Marker](#)

Research Area

Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody; Neuronal Cytoskeletal antibody; Neurofilament antibody; Intermediate Neurofilament antibody

Calculated Mw

62 kDa

PTM

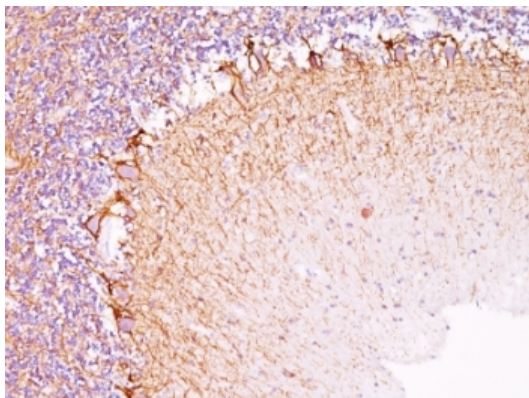
O-glycosylated.

Phosphorylated in the head and rod regions by the PKC kinase PKN1, leading to the inhibition of polymerization.

Ubiquitinated in the presence of TRIM2 and UBE2D1.

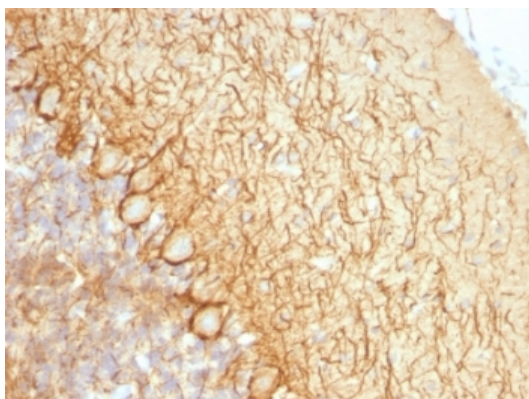
Cellular Localization

Cytoplasmic



ARG56066 anti-Neurofilament NF-L antibody [NR-4] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human cerebellum stained with ARG56066 anti-Neurofilament NF-L antibody [NR-4].



ARG56066 anti-Neurofilament NF-L antibody [NR-4] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Rat cerebellum stained with ARG56066 anti-Neurofilament NF-L antibody [NR-4].