

ARG52348 anti-Neurofilament NF-L antibody [DA2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [DA2] recognizes Neurofilament NF-L
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Chk
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	DA2
Isotype	IgG1
Target Name	Neurofilament NF-L
Species	Pig
Immunogen	Preparation of porcine NF-L
Epitope	Epitope is likely centered on the HVQEEQIEVE peptide.
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	Assay-dependent
	ICC/IF	1:100 - 1:1000
	IHC-Fr	1:100 - 1:1000
	IHC-P	Assay-dependent
	WB	1:1000 - 1:5000

Application Note Specific for the ~68k Neurofilament L protein.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

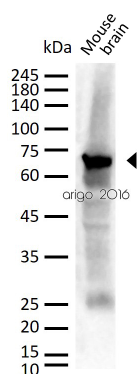
Form	Liquid
Purification	Total IgG fraction
Buffer	Total IgG fraction and 10 mM Sodium azide

Preservative	10 mM Sodium azide
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

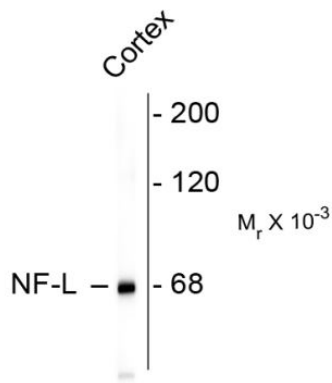
Background	Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H . NF-L is the neurofilament light or low molecular weight polypeptide and runs on SDS-PAGE gels at about 68kDa. Antibodies to NF-L are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. Mutations in the protein coding region of the human NF-L gene cause some forms of Charcot-Marie-Tooth disease .
Highlight	Related Antibody Duos and Panels: ARG30010 Neuronal Cytoskeletal Antibody Duo (NF-L, TUBBIII) ARG30011 Neurofilament Antibody Duo (NF-H, NF-L) ARG30145 Intermediate Neurofilament Antibody Panel (NF-L, NF-M,NF-H) Related products: Neurofilament antibodies ; Neurofilament ELISA Kits ; Neurofilament Duos / Panels ; Anti-Mouse IgG secondary antibodies ;
Research Area	Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody; Neuronal Cytoskeletal antibody; Neurofilament antibody; Intermediate Neurofilament antibody
Calculated Mw PTM	62 kDa 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.

Images



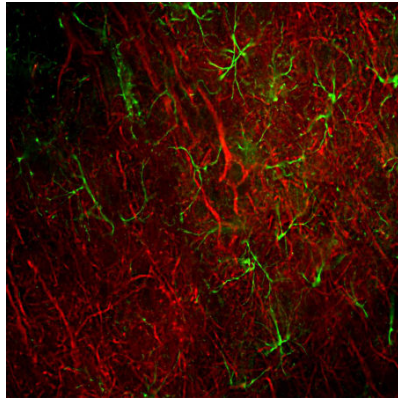
ARG52348 anti-Neurofilament NF-L antibody [DA2] WB image

Western blot: 30 µg of Mouse brain lysate stained with ARG52348 anti-Neurofilament NF-L antibody [DA2] at 1:1000 dilution.



ARG52348 anti-Neurofilament NF-L antibody [DA2] WB image

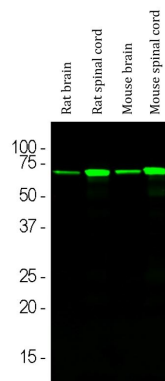
Western blot: rat cortex lysate stained with ARG52348 anti-Neurofilament NF-L antibody [DA2] showing specific immunoblotting of the ~ 68k NF-L protein.



ARG52348 anti-Neurofilament NF-L antibody [DA2] IHC-Fr image

Immunohistochemistry: Frozen section of Rat frontal cortex tissue stained with ARG52348 anti-Neurofilament NF-L antibody [DA2] (red) at 1:500 dilution, and costained with anti-GFAP antibody (green) at 1:5000 dilution. 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 above antibodies.

Clone DA2 labels cell bodies and processes of pyramidal neurons, as well as dendrites and axons of other neuronal cells, while the GFAP antibody stains the network of glial cells.



ARG52348 anti-Neurofilament NF-L antibody [DA2] WB image

Western blot: Rat brain, Rat spinal cord, Mouse brain and Mouse spinal cord lysates stained with ARG52348 anti-Neurofilament NF-L antibody [DA2] (green) at 1:5000 dilution.