

Datasheet for 900-301-D83

Neurofilament L Antibody

Overview

Description:	Anti-Neurofilament L (MOUSE) Antibody - 900-301-D83
Item No.:	900-301-D83
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Host Species:	Mouse

Product Details

Background:	NF-L antibody detects Neurofilament L. 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. Anti-Neurofilament L antibody is ideal for investigators involved in Cell Signaling and Neuroscience research.
Synonyms:	mouse anti-Neurofilament L Antibody, Neurofilament light polypeptide, NF-L, 68 kDa neurofilament protein, Neurofilament triplet L protein
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	DA2
Format:	IgG1

Target Details

Gene Name:	NEFL
Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Immunogen Type:	Native Protein

Immunogen:	Anti-NF-L Monoclonal Antibody was produced by repeated immunizations with preparation of swine intermediate filaments.
Purity/Specificity:	Anti-NF-L antibody is directed against NF-L protein. The antibody is protein G purified from concentrated clarified cell culture supernatant. The antibody has been directly tested for reactivity in bovine, chicken, human, mouse and rat tissues. Cross reactivity with NF-L from other species has not been determined.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - P07196• GeneID - 4747• UniProtKB - P02548.3

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Neurofilament L antibody is tested for use in Western Blotting, ICC and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 68 kDa in size corresponding to the Neurofilament L proteins in Western Blot in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:100
WB:	1:1000

Formulation

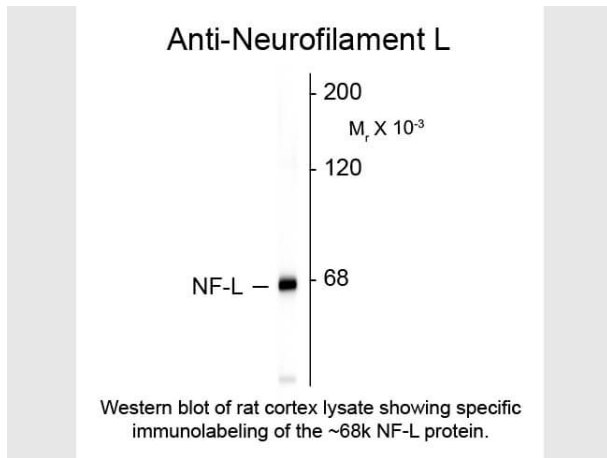
Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Mouse anti-Neurofilament L antibody. Lane 1: Rat cortex lysate. Lane 2: none. Load: 20 μ g per lane. Primary antibody: Neurofilament L antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 68 kDa for Neurofilament L. Other band(s): none.

References

- Rodrigues-Amorim D et al. Plasma β -III tubulin, neurofilament light chain and glial fibrillary acidic protein are associated with neurodegeneration and progression in schizophrenia. *Sci Rep.* (2020)

Disclaimer

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