

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:	• 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

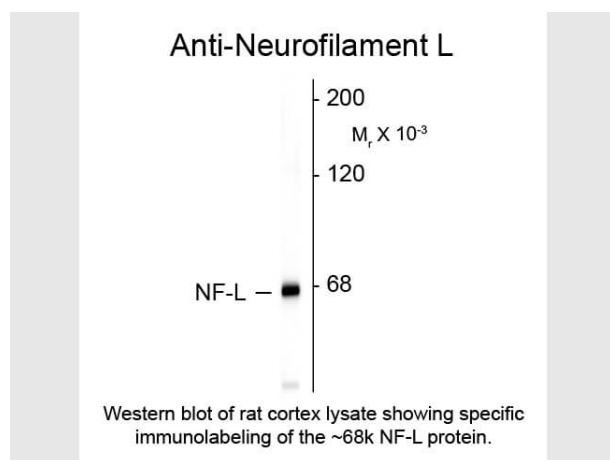
Physical State:	Liquid
Concentration:	10 titrated reagent Sufficient to run approximately 10 miniblots
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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 µg 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.