

Datasheet for 200-901-D83**Neurofilament L Antibody****Overview**

Description:	Anti-Neurofilament L (Chicken) Antibody - 200-901-D83
Item No.:	200-901-D83
Size:	100 µL
Applications:	IF, WB
Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Host Species:	Chicken

Product Details

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. Anti-Neurofilament L antibody is ideal for investigators involved in Cell Signaling and Neuroscience research.
Synonyms:	Neurofilament light polypeptide, NF-L, 68 kDa neurofilament protein, Neurofilament triplet L protein
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	NEFL
Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Immunogen Type:	Native Protein
Immunogen:	Anti-Neurofilament L Antibody was produced by repeated immunizations with preparations of bovine spinal cord intermediate filaments.

Purity/Specificity: Anti-NF-L antibody is directed against NF-L protein. The antibody is a total IgY fraction. This antibody works well on frozen sections, cells in tissue culture and on mildly formalin fixed histological sections. Expect reactivity with the following species based on sequence homology: chicken, human, mouse, rat.

Relevant Links:

- [UniProtKB - P07196](#)
- [GeneID - 4747](#)
- [UniProtKB - P02548.3](#)

Application Details

Tested Applications: IF, WB

Application Note: Anti-Neurofilament L antibody is tested for use in Western Blotting and IF. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 68 kDa in size corresponding to the NF-L proteins in Western blots 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: 1:5000

WB: 1:10000

Formulation

Physical State: Liquid

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Shipping & Handling

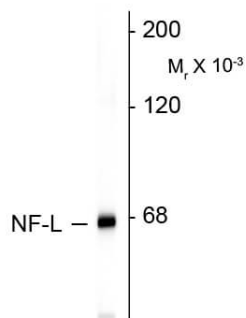
Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

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

Images

Anti-Neurofilament L



Western blot of rat cortex lysate showing specific immunolabeling of the ~68k NF-L protein.

Western Blot

Western Blot of Chicken anti-Neurofilament L antibody.

Lane 1: Rat cortex lysate. Lane 2: none. Load: 20 µg per

lane. Primary antibody: Neurofilament L antibody at

1:10,000 for overnight at 4°C. Secondary antibody:

IRDye800™ chicken 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.

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.