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Datasheet for 200-901-D83

# Neurofilament L Antibody

## Overview

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| **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

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| **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

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| **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. |

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| **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<br>• GeneID - 4747<br>• UniProtKB - P02548.3 |

## Application Details

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| **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

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| **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

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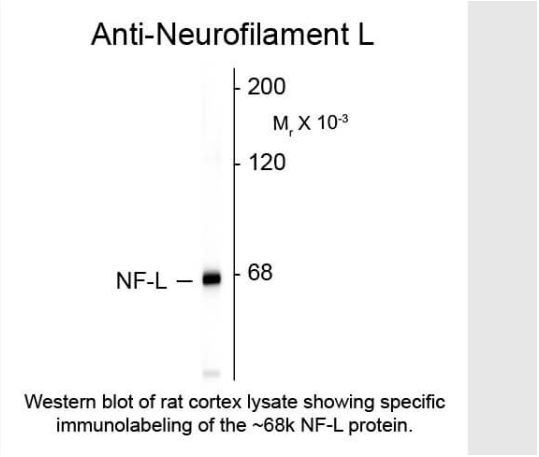
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




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