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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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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

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| **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

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

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

## Application Details

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| **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

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| **Physical State:** | Liquid |
| **Concentration:** | Titrated 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

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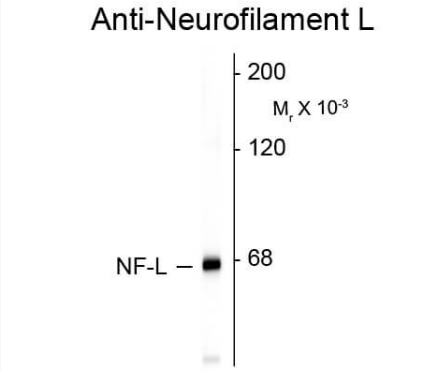
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product 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 of rat cortex lysate showing specific immunolabeling of the ~68k NF-L protein.

**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