

Datasheet for 200-901-D82

Neurofilament H Antibody

Overview

Description:	Anti-Neurofilament H (Chicken) Antibody - 200-901-D82
Item No.:	200-901-D82
Size:	100 µL
Applications:	IF, WB
Reactivity:	Human, Mouse, Rat, Chicken
Host Species:	Chicken

Product Details

Background:	NF-H antibody detects Neurofilament H. 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-H is the neurofilament high or heavy molecular weight polypeptide and runs on SDS-PAGE gels at 200-220 kDa, with some variability across species boundaries. Antibodies to NF-H are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-H antibodies can also be useful to visualize neurofilament accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (Lou Gehrig's disease) and Alzheimer's disease. Anti-Neurofilament H antibody is ideal for investigators involved in Cell Signaling, and Neuroscience research.
Synonyms:	Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

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

Immunogen:	Anti-Neurofilament NF-H Antibody was produced by repeated immunizations with purified bovine NF-H.
Purity/Specificity:	Anti-NF-H antibody is directed against NF-H. The antibody is a total IgY fraction. This antibody is directed against bovine neurofilament h protein. Reactivity is expected from the following species based on sequence homology: chicken, human, mouse, rat. Cross reactivity with NF-H from other species has not been determined.
Relevant Links:	• UniProtKB - P12036 • GeneID - 4744 • NCBI - DAA20547.1

Application Details

Tested Applications:	IF, WB
Application Note:	Anti-Neurofilament H antibody is tested for use in Western blotting and IF. Expect a band of approximately 200 kDa in size corresponding to the NF-H proteins in Western blots in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:25000
WB:	1:50000

Formulation

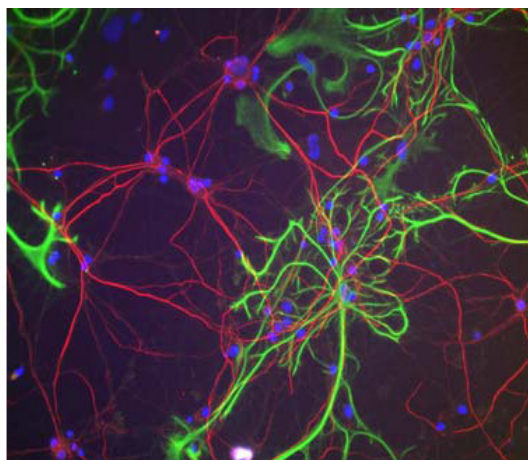
Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

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.

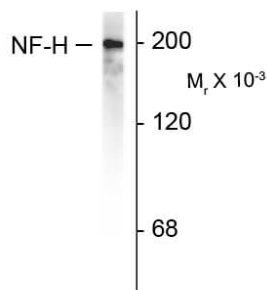
Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Chicken anti-Neurofilament H antibody. Tissue: rat cortical neurons and glia. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Neurofilament H antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: Neurofilament H is found in neurons. Staining: NF-H staining (red).

Anti-Neurofilament H



Western blot of rat cortex lysate showing specific immunolabeling of the ~200k NF-H protein.

Western Blot

Western Blot of Chicken anti-Neurofilament H antibody. Lane 1: rat cortex lysate. Lane 2: none. Load: 20 µg per lane. Primary antibody: Neurofilament H antibody at 1:1,000 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: 200 kDa for Neurofilament H. 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.