Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

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

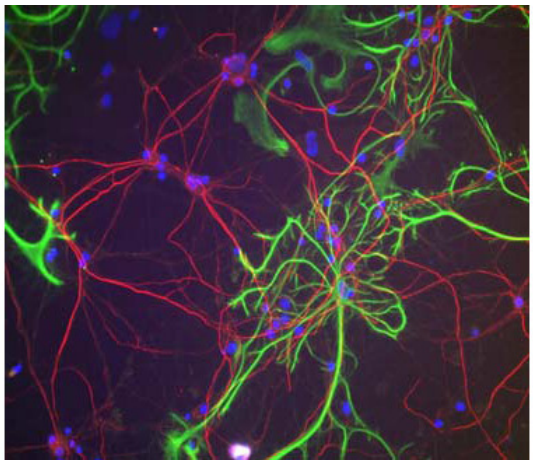
Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 mini blots.
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Shipping & Handling

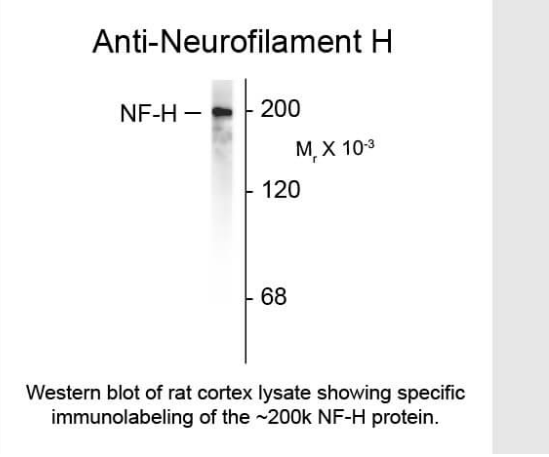
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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).



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