Datasheet for ABIN6658051

anti-NEFM antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	NEFM
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This NEFM antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	Neurofilament M Antibody
Immunogen:	Anti-NF-M Monoclonal Antibody was produced by repeated immunizations with recombinant C-terminus part of NF-M expressed in E. coli.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-NF-M antibody is directed against NF-M protein.
Purification:	The antibody is a total IgY fraction.

Target Details

Target:	NEFM
Alternative Name:	Neurofilament M (NEFM Products)

Target Details

Background:	Synonyms: chicken anti-Neurofilament M antibody, Neurofilament medium polypeptide, NF-M, 160 kDa neurofilament protein, Neurofilament 3, Neurofilament triplet M protein Background: NF-M antibody detects Neurofilament M protein. 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-M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at 145-160 kDa, with some variability across species boundaries. Antibodies to NF-M are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-M 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. Neurofilament M Antibody is ideal for investigators involved in Cell Signaling and Neuroscience research. Gene Name: NEFM
Gene ID:	24588
UniProt:	P12839
Pathways:	Brown Fat Cell Differentiation

Application Details

Application Notes:	IF_Microscopy_Dilution: 1:1000 Western_Blot_Dilution: 1:5000 Other: User Optimized
Comment:	Suggested Applications: IHC Anti- Neurofilament M antibody is tested for use in Western Blotting and IF. Specific . Expect a band of approximately 145 kDa in size corresponding to NF-M proteins in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 ,0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Publications

Product cited in:

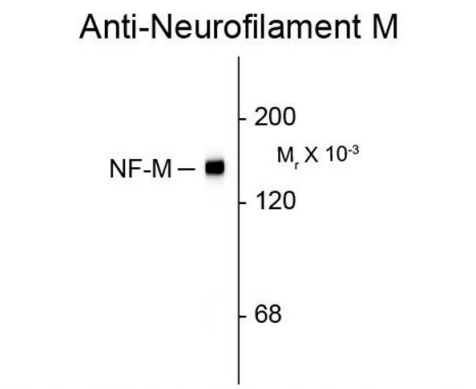
Procacci, Hastings, Aziz, Christiansen, Zhao, DeAngeli, LeBlanc, Notterpek, Valdez, Gould: "Kir4.1 is specifically expressed and active in non-myelinating Schwann cells." in: **Glia**, Vol. 71, Issue 4, pp. 926-944, (2023) (PubMed).

Perez-Gonzalez, Provost, Rousse, Piovesana, Benzina, Darabid, Lamoureux, Wang, Arbour, Robitaille: "Functional adaptation of glial cells at neuromuscular junctions in response to injury." in: **Glia**, Vol. 70, Issue 9, pp. 1605-1629, (2022) (PubMed).

Martineau, Arbour, Vallée, Robitaille: "Properties of Glial Cell at the Neuromuscular Junction Are Incompatible with Synaptic Repair in the SOD1G37R ALS Mouse Model." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 40, Issue 40, pp. 7759-7777, (2021) (PubMed).

Darabid, St-Pierre-See, Robitaille: "Purinergic-Dependent Glial Regulation of Synaptic Plasticity of Competing Terminals and Synapse Elimination at the Neuromuscular Junction." in: **Cell reports**, Vol. 25, Issue 8, pp. 2070-2082.e6, (2019) (PubMed).

Martineau, Di Polo, Vande Velde, Robitaille: "Dynamic neuromuscular remodeling precedes motor-unit loss in a mouse model of ALS." in: **eLife**, Vol. 7, (2019) (PubMed).



Western blot of rat cortex lysate showing specific immunolabeling of the ~145k NF-M protein.

Western Blotting

Image 1. Western blot of Anti-Neurofilament M (Chicken) Antibody - 212-901-D84 Western Blot of Chicken anti-Neurofilament M antibody. Lane 1: Rat cortex lysate. Lane 2: none. Load: 20 µg per lane. Primary antibody: Neurofilament M antibody at 1:5,000 for overnight at 4°C. Secondary antibody: chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 145 kDa for Neurofilament M. Other band(s): none.