abcam

Product datasheet

Anti-68kDa Neurofilament/NF-L antibody ab9035

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概述

产品名称	Anti-68kDa Neurofilament/NF-L抗体
描述	兔多克隆抗体to 68kDa Neurofilament/NF-L
宿主	Rabbit
特异性	Specifically recognizes the light neurofilament subunit (~68 kDa).
经测试应用	**适用于:** WB, ICC/IF, IHC-FrFl
种属反应性	**与反应:** Mouse, Rat **预测可用于:** Bird, Mammals
免疫原	Full length native protein (purified) corresponding to Pig 68kDa Neurofilament/NF-L. prepared from spinal cords by the method of Delacourte et al. and this cytoskeletal material was dissolved in 6M urea. Purified by ion exchange chromatography, then preparative gel electrophoresis.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee	Abpromise™承诺保证使用ab9035于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/5000.
ICC/IF	★★★★☆ (1)	1/500.
IHC-FrFl		1/5000.

靶标

功能

Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.

疾病相关

Defects in NEFL are the cause of Charcot-Marie-Tooth disease type 1F (CMT1F) [MIM:607734]. CMT1F is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT1 group are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. CMT1F is characterized by onset in infancy or childhood (range 1 to 13 years).
Defects in NEFL are the cause of Charcot-Marie-Tooth disease type 2E (CMT2E) [MIM:607684]. CMT2E is an autosomal dominant form of Charcot-Marie-Tooth disease type 2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy.

序列相似性

Belongs to the intermediate filament family.

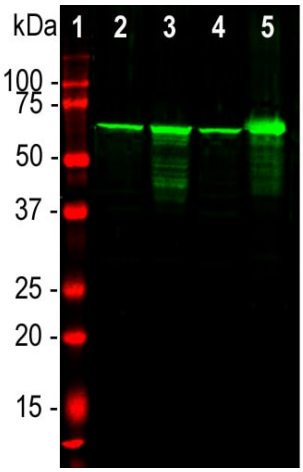
结构域

The extra mass and high charge density that distinguish the neurofilament proteins from all other intermediate filament proteins are due to the tailpiece extensions. This region may form a charged scaffolding structure suitable for interaction with other neuronal components or ions.

翻译后修饰

O-glycosylated.
Phosphorylated in the Head and Rod regions by the PKC kinase PKN1, leading to inhibit polymerization.

图片



Western blot - Anti-68kDa Neurofilament/NF-L antibody (ab9035)

Lane 1 : Protein ladder

Lanes 2-5 : Anti-68kDa Neurofilament/NF-L antibody (ab9035) at 1/20000 dilution

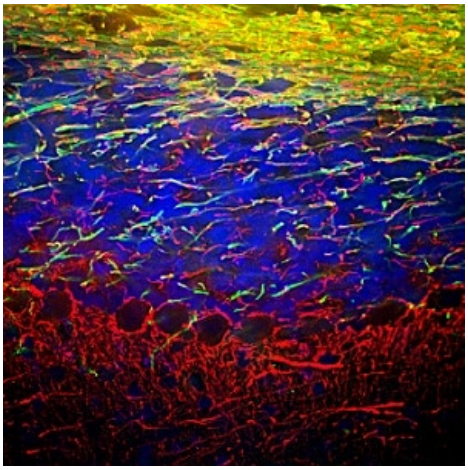
Lane 2 : Rat brain

Lane 3 : Rat spinal cord

Lane 4 : Mouse brain

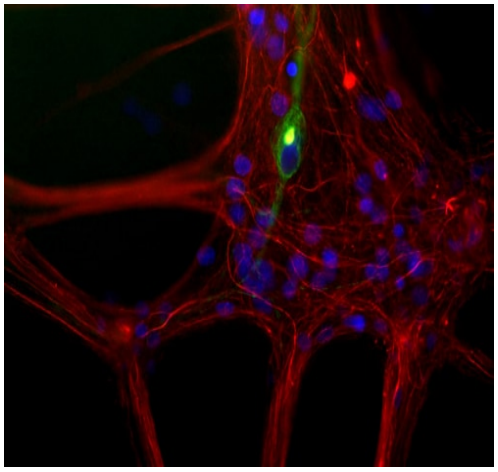
Lane 5 : Mouse spinal cord

Observed band size: 68 kDa



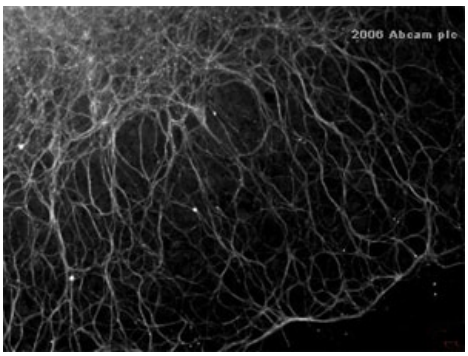
Immunohistochemistry - Free Floating - Anti-68kDa Neurofilament/NF-L antibody (ab9035)

Immunohistochemistry (Free Floating) analysis of mouse cerebellum staining 68kDa Neurofilament/NF-L with ab9035 (1/5000) in red. Costained with chicken pAb to MBP (1/5000) in green and DAPI in blue. Following transcardial perfusion of mouse with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with above antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-68kDa Neurofilament/NF-L antibody (ab9035)

ab9035 staining anti 68kDa Neurofilament/NF-L in mixed neuron/glia cultures from newborn rat brain by ICC/IF (Immunocytochemistry/immunofluorescence). Samples were incubated with primary antibody (1/500) (red) and co-stained with **ab4573** for anti Peripherin (green).



Immunocytochemistry/ Immunofluorescence - Anti-68kDa Neurofilament/NF-L antibody (ab9035)

This image is courtesy of an Abreview submitted by Dr Luis Craveiro

ab9035 at a 1/300 dilution staining rat hippocampal organotypic slice cultures by ICC/IF. The primary antibody was incubated with the cells for 120 hours (this time allows for the antibody to penetrate a layer of glial cells that grows while the slice is in culture). Bound antibody is detected using a Cy3 conjugated Indocarbocyanine.

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