abcam

Product datasheet

Anti-68kDa Neurofilament/NF-L antibody ab72997

★★★★☆ **11 Abreviews**   **11 References**   **1 Image**

Overview

Product name	Anti-68kDa Neurofilament/NF-L antibody
Description	Chicken polyclonal to 68kDa Neurofilament/NF-L
Host species	Chicken
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Rat
Immunogen	Tissue, cells or virus corresponding to Cow 68kDa Neurofilament/NF-L. Bovine spinal cord intermediate filaments. Database link: **P02548**
General notes	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.065% Sodium azide
Purity	IgY fraction
Clonality	Polyclonal
Isotype	IgY

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab72997 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

1

Application	Abreviews	Notes
WB	★★★★☆ (1)	1/10000. Detects a band of approximately 68 kDa (predicted molecular weight: 61 kDa).

Target

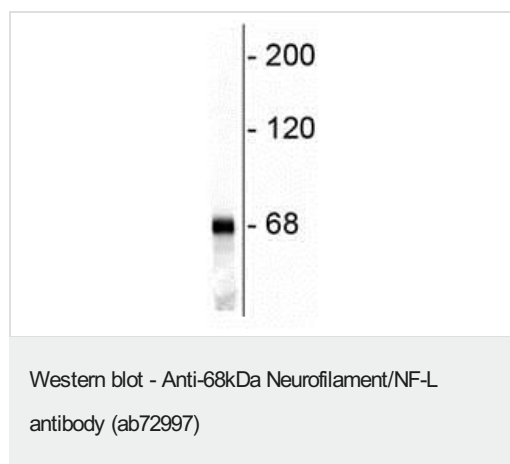|	
Function	Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.
Involvement in disease	Defects in NEFL are the cause of Charcot-Marie-Tooth disease type 1F (CMT1F) [MIM:607734]. CMT1F is a form of Charcot-Marie-Tooth 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.
Sequence similarities	Belongs to the intermediate filament family.
Domain	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.
Post-translational modifications	O-glycosylated. Phosphorylated in the Head and Rod regions by the PKC kinase PKN1, leading to inhibit polymerization.

Images

Anti-68kDa Neurofilament/NF-L antibody (ab72997) at 1/10000 dilution + Rat cerebral cortex lysate

Predicted band size: 61 kDa
Observed band size: 68 kDa

Western blot - Anti-68kDa Neurofilament/NF-L antibody (ab72997)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors