abcam

Product datasheet

Anti-68kDa Neurofilament/NF-L antibody [DA2] ab7255

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製品の概要

製品名	Anti-68kDa Neurofilament/NF-L antibody [DA2]
製品の詳細	Mouse monoclonal [DA2] to 68kDa Neurofilament/NF-L
由来種	Mouse
特異性	Specifically recognizes the light neurofilament subunit or 68kDa Neurofilament/NF-L.
アプリケーション	**適用あり:** Flow Cyt, ICC/IF, WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Bird, Mammals
免疫原	Full length native protein (purified) corresponding to Pig 68kDa Neurofilament/NF-L. A preparation of enzymatically dephosphorylated pig neurofilaments including NF-L, NF-M and NF-H. Screening was by ELISA on the immunogen followed by immunofluorescence microscopy.
エピトープ	Epitope mapped to a short peptide in the C-terminal “tail” region of the molecule within the human sequence SYYTSHVQEEQIEVE, amino acids 441-455.
特記事項	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

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.033% Sodium azide Constituent: Tissue culture supernatant
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	DA2

アイソタイプ	IgG1
軽鎖の種類	kappa

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab7255の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt		1/100. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★★☆☆☆ (1)	1/1000. For unpurifed use at : 1/100 - 1/500
WB		1/5000 - 1/10000.
IHC-P		1/1000. (works on mildly formalin fixed sections)

ターゲット情報

機能

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

関連疾患

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.

配列類似性

Belongs to the intermediate filament family.

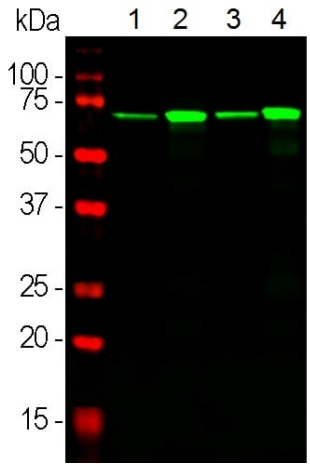
ドメイン

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.

翻訳後修飾

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

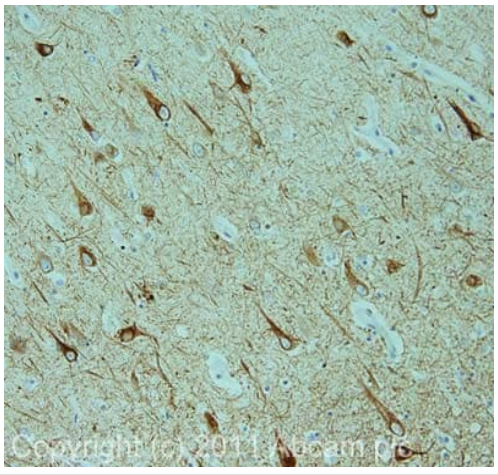
画像



Western blot - Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255)

All lanes : Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255) at 1/5000 dilution

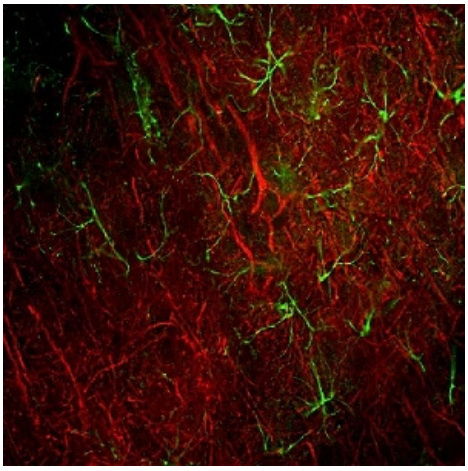
Lane 1 : rat brain whole tissue lysates
Lane 2 : rat spinal cord whole tissue lysates
Lane 3 : mouse brain whole tissue lysates
Lane 4 : mouse spinal cord whole tissue lysates



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255)

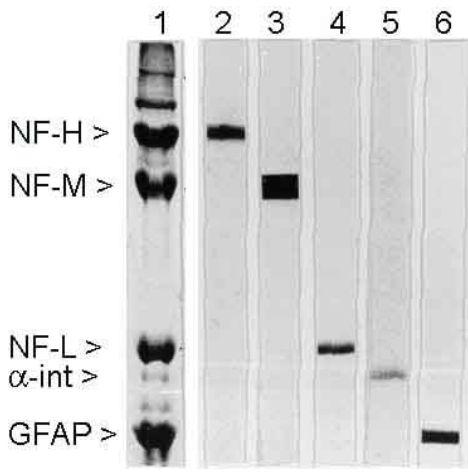
IHC image of ab7255 staining in human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab7255, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255)

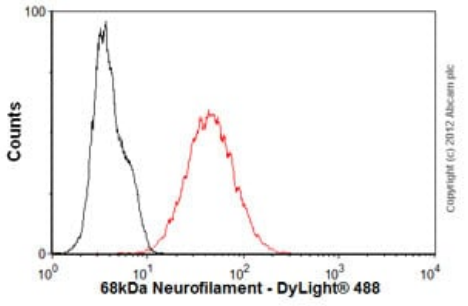
Ab7255 staining 68kDa Neurofilament/NF-L in rat frontal cortex sections by Immunocytochemistry/Immunofluorescence. Samples were incubated with primary antibody at 1/5000 dilution (red) and chicken polyclonal to GFAP.



Western blot - Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255)

Lane 1 : Coomassie Blue stain
Lane 2 : Heavy neurofilament antibody
Lane 3 : Anti-160 kD Neurofilament Medium antibody [3H11] (**ab7256**)
Lane 4 : Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255)
Lane 5 : alpha Internexin antibody
Lane 6 : GFAP antibody

All lanes : Cytoskeletal homogenates of rat spinal cord



Flow Cytometry - Anti-68kDa Neurofilament/NF-L antibody [DA2] (ab7255)

Overlay histogram showing SH-SY5Y cells stained with ab7255 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab7255, 1/100 dilution) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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