

Anti-Neurofascin antibody ab31457

★★★★☆ **4 Abreviews** **23 References** 画像数 3

製品の概要

製品名	Anti-Neurofascin antibody
製品の詳細	Rabbit polyclonal to Neurofascin
由来種	Rabbit
特異性	<p>The ab31457 antibody would be able to bind to the full length canonical sequence Isoform 1 and also to Isoforms 5, Isoform 6, Isoform 9 and Isoform 13.</p> <p>The antibody would not be able to detect Isoforms 2, 3, 4, 7, 8, 10, 11 or Isoform 12. All of these Isoforms are missing amino acids 1035-1203.</p>
アプリケーション	適用あり: WB, ICC/IF, IHC-FoFr, IHC-P
種交差性	交差種: Mouse, Rat, Human, Common marmoset
免疫原	<p>Synthetic peptide corresponding to Mouse Neurofascin aa 1150 to the C-terminus conjugated to keyhole limpet haemocyanin.</p> <p>Database link: Q810U3</p> <p>(Peptide available as ab33377)</p>
特記事項	<p>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.</p> <p>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</p>

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	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising

agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

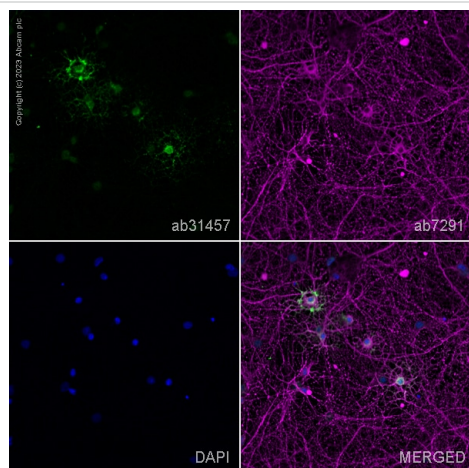
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab31457の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 155,186 kDa (predicted molecular weight: 138 kDa).
ICC/IF		Use a concentration of 1 µg/ml.
IHC-FoFr	★★★★★ (1)	1/1000.
IHC-P	★★★★★ (3)	Use at an assay dependent concentration.

ターゲット情報

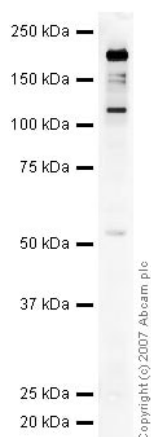
機能	Cell adhesion, ankyrin-binding protein which may be involved in neurite extension, axonal guidance, synaptogenesis, myelination and neuron-glial cell interactions.
配列類似性	Belongs to the immunoglobulin superfamily. L1/neurofascin/NgCAM family. Contains 5 fibronectin type-III domains. Contains 6 Ig-like C2-type (immunoglobulin-like) domains.
細胞内局在	Cell membrane.

画像



Immunocytochemistry/ Immunofluorescence - Anti-Neurofascin antibody (ab31457)

ab31457 staining Neurofascin in Rat Primary Neurons DIV14 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab31457 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Western blot - Anti-Neurofascin antibody (ab31457)

Anti-Neurofascin antibody (ab31457) at 1 µg/ml + Brain(Mouse)Whole Cell Lysate at 10 µg

Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

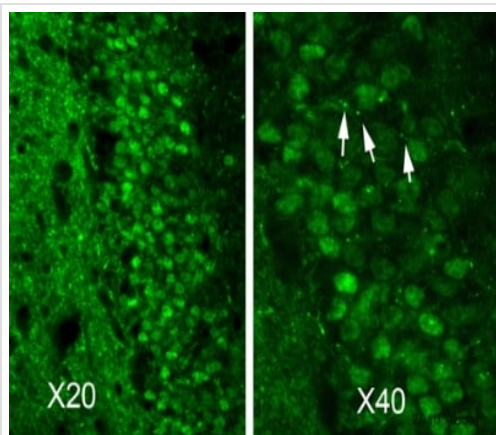
Predicted band size: 138 kDa

Observed band size: 155,186 kDa

Additional bands at: 120 kDa, 55 kDa. We are unsure as to the identity of these extra bands.

In Rat, Neurofascin has three observed isoforms , isoform 1 (138 kDa) which is known as Nfasc186, isoform 2 (133 kDa) and isoform 3 (132 kDa) which are both known as Nfasc155. These proteins are highly glycosylated and their observed molecular weight in Western blot is 186 kDa and 155 kDa respectively.

Mouse Neurofascin has a predicted molecular weight of 138 kDa (Swiss-Prot data) however the observed bands at 186 kDa and 155 kDa are thought to correspond to the glycosylated isoforms 1, 2 and 3 as observed in Rat (Sherman DL et al, 2005, PubMed:16337912)



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Neurofascin antibody (ab31457)

This image is courtesy of Sophie Pezet, CNRS, Paris, France

Immunohistochemical detection of Neurofascin using antibody ab31457 on PFA perfusion-fixed rat brain sections. Primary antibody ab31457 was used at 1/1000 incubated for 18 hours @ 20°C in PBS + 0.3 % Triton X100. Secondary antibody: goat anti-rabbit Alexa Fluor 488 conjugated (1/1000). Immunostaining obtained in the rat hippocampus using this antibody diluted 1:1000. Sections come from a perfused-fixed animal. The immunostaining was performed using the `free floating` technique, using direct fluorescence. Some cytoplasmic staining was observed in granular neurons and neuronal processes (arrows on the figure on the right). The lefthand figure shows the hippocampal granular cell staining (objective X20), the righthand figure shows this at higher magnification. This staining is consistent with published observation of cytoplasmic localisation of Neurofascin in the cytoplasm of hippocampal cells and their axon initial segment (Burkhardt

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