

Anti-Nav1.8/SCN10A antibody [S134] ab93616

リコンビナント

★★★★★ [1 Abreviews](#) [7 References](#) [画像数 4](#)

製品の概要

製品名	Anti-Nav1.8/SCN10A antibody [S134]
製品の詳細	Mouse monoclonal [S134] to Nav1.8/SCN10A
由来種	Mouse
特異性	No cross reactivity against other Nav channels.
アプリケーション	適用あり: ICC, ICC/IF, IHC-Fr, WB, IHC-P, Flow Cyt
種交差性	交差種: Mouse, Rat, Human, Monkey
免疫原	Recombinant fragment within Rat Nav1.8/SCN10A aa 1700 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <u>contact</u> our Scientific Support team to discuss your requirements. Database link: <u>Q62968</u>
ポジティブ・コントロール	WB: COS cell lysate transiently expressing Nav1.8/SCN10A. Flow Cyt: SH-SY5Y cells. IHC-P: Mouse backskin tissue. ICC: HaCaT cells
特記事項	<p>The clone number has been updated from S134-12 to N134/12, both clone numbers name the same antibody clone.</p> <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 -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol, PBS

精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	S134
アイソタイプ	IgG2a

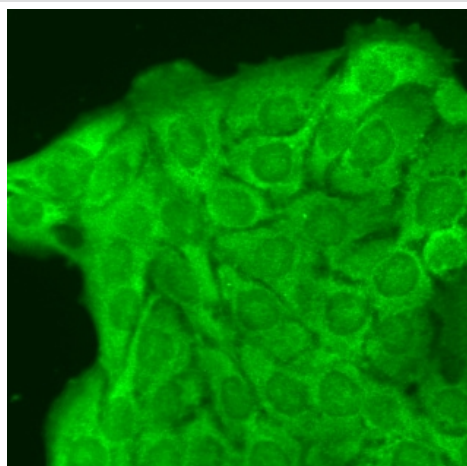
アプリケーション

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ab93616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
ICC		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 10 µg/ml. Predicted molecular weight: 220 kDa.
IHC-P	★★★★★ (1)	Use a concentration of 0.1 - 1 µg/ml.
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

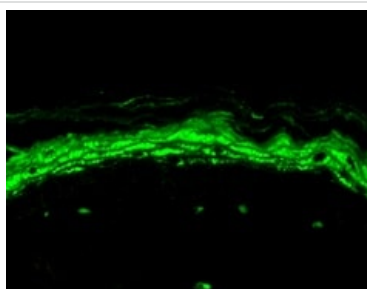
ターゲット情報

機能	Tetrodotoxin-resistant channel that mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which sodium ions may pass in accordance with their electrochemical gradient. Plays a role in neuropathic pain mechanisms.
組織特異性	Expressed in the dorsal root ganglia and sciatic nerve.
関連疾患	Episodic pain syndrome, familial, 2
配列類似性	Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.8/SCN10A subfamily. Contains 1 IQ domain.
ドメイン	The sequence contains 4 internal repeats, each with 5 hydrophobic segments (S1,S2,S3,S5,S6) and one positively charged segment (S4). Segments S4 are probably the voltage-sensors and are characterized by a series of positively charged amino acids at every third position.
翻訳後修飾	Ubiquitinated by NEDD4L; which promotes its endocytosis. Phosphorylation at Ser-1451 by PKC in a highly conserved cytoplasmic loop slows inactivation of the sodium channel and reduces peak sodium currents.
細胞内局在	Cell membrane. It can be translocated to the cell membrane through association with S100A10.



Immunocytochemistry/ Immunofluorescence - Anti-Nav1.8/SCN10A antibody [S134] (ab93616)

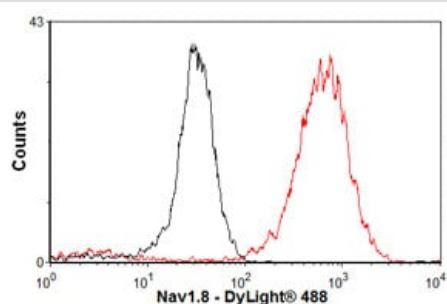
Immunofluorescent analysis of 100% methanol-fixed (10 minutes at -20°C) HaCaT (human keratinocytes) cells labelling Nav1.8/SCN10A with ab93616 at 1/100 dilution, followed by Goat Anti-Mouse (FITC) secondary antibody at 1/50 dilution (Green). Fluorescence image showing cytoplasmic staining and some dull nuclear staining on HaCaT cell line.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nav1.8/SCN10A antibody [S134] (ab93616)

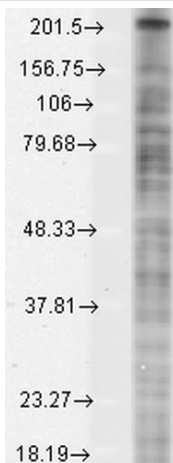
Paraffin-embedded mouse backskin tissue stained for Nav1.8/SCN10A using ab93616 at 1/100 dilution in immunohistochemical analysis.

Fixation: Bouin's Fixative. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1/50 dilution for 1 hour at room temperature.



Flow Cytometry - Anti-Nav1.8/SCN10A antibody [S134] (ab93616)

Overlay histogram showing SH-SY5Y cells stained with ab93616 (red line). The cells were fixed with 80% methanol (5 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. The cells were then incubated with the antibody (ab93616, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.



Western blot - Anti-Nav1.8/SCN10A antibody [S134] (ab93616)

Anti-Nav1.8/SCN10A antibody [S134] (ab93616) at 1/1000 dilution
+ Monkey COS cell lysate transiently expressing Nav1.8/SCN10A.
at 15 µg

Secondary

Sheep Anti-Mouse IgG: HRP

Predicted band size: 220 kDa

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