abcam

Product datasheet

Anti-CaV1.3 antibody [S48] ab85491

リコンビナント

★★★★★ 1 Abreviews 6 References 画像数 3

製品の概要

製品名 Anti-CaV1.3 antibody [S48]

製品の詳細 Mouse monoclonal [S48] to CaV1.3 - N-terminal

由来種 Mouse

特異性 No cross reactivity against CaV1.2.

アプリケーション **適用あり:** IHC-P, Flow Cyt

種交差性 **交差種:** Mouse, Human

交差が予測される動物種: Hamster

免疫原 Synthetic peptide corresponding to Rat CaV1.3 aa 859-875 (N terminal).
Sequence:

DNKVTIDDYQEEAEDKD

Database link: P27732

Run BLAST with Run BLAST with

ポジティブ・コントロール Rat brain normal tissue lysate - membrane extract (ab29473) can be used as a positive control in WB. Flow Cyt: SH-SY5Y cells. ICC/IF: Human differentiated iPS cells. IHC-P: Mouse backskin tissue. Human hippocampus tissue.

特記事項 The clone number has been updated from S48A-9 to L48A/9, both clone numbers name the same antibody clone.

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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

バッファー	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	S48
アイソタイプ	IgG2a
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ab85491の使用に適用されます

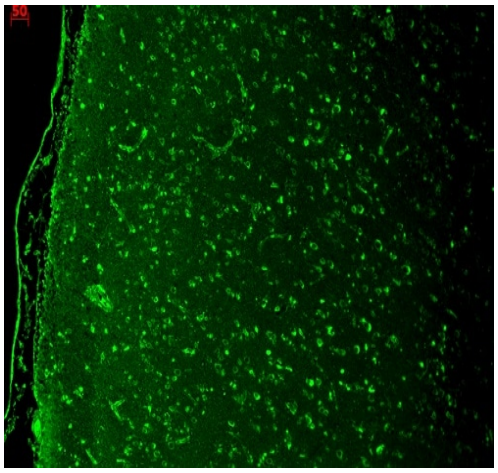
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/100.
Flow Cyt		Use 0.5-1µg 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	Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1D gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, benzothiazepines, and by omega-agatoxin-IIIA (omega-Aga-IIIA). They are however insensitive to omega-conotoxin-GVIA (omega-CTx-GVIA) and omega-agatoxin-IVA (omega-Aga-IVA).
組織特異性	Expressed in pancreatic islets and in brain, where it has been seen in cerebral cortex, hippocampus, basal ganglia, habenula and thalamus. Expressed in the small cell lung carcinoma cell line SCC-9. No expression in skeletal muscle.
配列類似性	Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family. CACNA1D subfamily.
ドメイン	Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.
細胞内局在	Membrane.

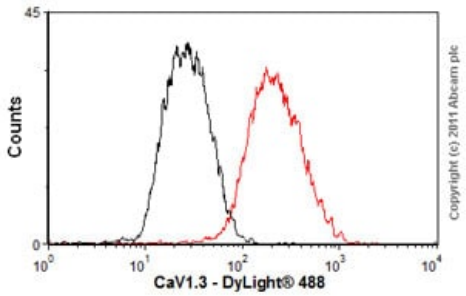
画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CaV1.3 antibody [S48] (ab85491)

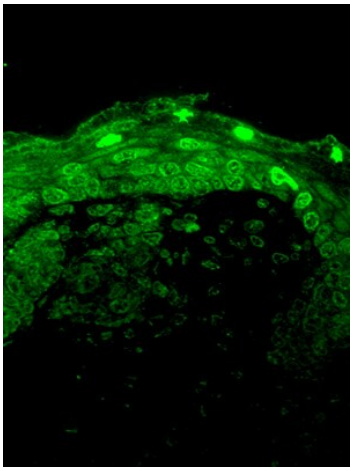
ab85491 staining CaV1.3 in human hippocampus tissue by IHC-P (Bouin's fixed paraffin embedded tissue sections).

The primary antibody was used at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Flow Cytometry - Anti-CaV1.3 antibody [S48] (ab85491)

Overlay histogram showing SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells stained with ab85491 (red line). The cells were fixed with 80% methanol (5 minutes) and then permeabilized with 0.1% PBS-Tween for 20 minutes. 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 (ab85491, 0.5 µg/1x10^6 cells) for 30 minutes at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 minutes at 22ºC. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 1 µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive result in SH-SY5Y cells fixed with 4% paraformaldehyde (10 minutes)/permeabilized in 0.1% PBS-Tween for 20 minutes used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CaV1.3 antibody [S48] (ab85491)

ab85491 staining CaV1.3 in mouse backskin tissue by IHC-P (Bouin's fixed paraffin embedded tissue sections).

Tissue underwent antigen retrieval using microwave in citrate buffer. The primary antibody was used at 1/100 dilution and then sections were incubated with Fluorophore conjugated goat anti mouse at 1/50 dilution.

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