




Anti-CaV1.3 antibody [S48] ab85491

重组

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概述

产品名称	Anti-CaV1.3抗体[S48]
描述	小鼠单克隆抗体[S48] to CaV1.3 - N-terminal
宿主	Mouse
特异性	No cross reactivity against CaV1.2.
经测试应用	适用于: IHC-P, Flow Cyt
种属反应性	与反应: Mouse, Human 预测可用于: Hamster 
免疫原	Synthetic peptide corresponding to Rat CaV1.3 aa 859-875 (N terminal). Sequence: DNKVTIDDYQEEAEDKD Database link: P27732 <div>  Run BLAST with  Run BLAST with </div>
阳性对照	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.
常规说明	<p>The clone number has been updated from S48A-9 to L48A/9, 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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

存储溶液	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	S48
同种型	IgG2a
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab85491于以下的经测试应用

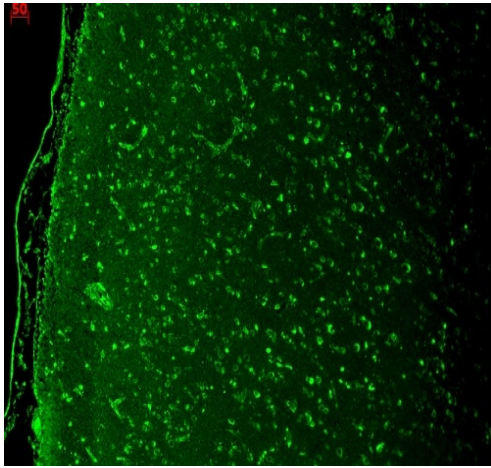
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能	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).
组织特异性	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.
序列相似性	Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family. CACNA1D subfamily.
结构域	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.
细胞定位	Membrane.

图片

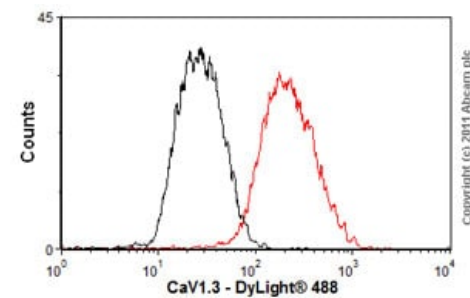


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CaV1.3 antibody [S48] (ab85491)

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

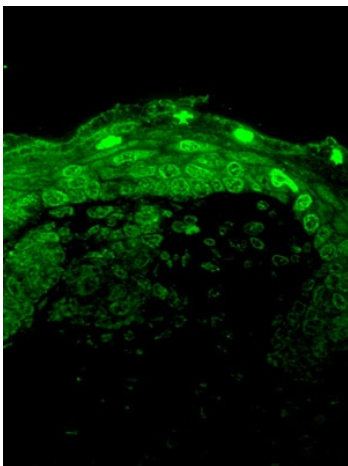
The primary antibody was used at 1:1000 for 1 hour at RT.

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 μ g/ 1×10^6 cells) for 30 minutes at 22°C. The secondary antibody used was DyLight[®] 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 minutes at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 1 μ g/ 1×10^6 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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