

Anti-CACNB2 antibody [N8B/1] ab93606

★★★★★ [1 Abreviews](#) [3 References](#) [3 图像](#)

概述

产品名称	Anti-CACNB2抗体[N8B/1]
描述	小鼠单克隆抗体[N8B/1] to CACNB2
宿主	Mouse
特异性	No cross reactivity against CAVB1, CAVB3 and CAVB4
经测试应用	适用于: WB, IHC-Fr, IP, IHC-P, ICC/IF, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human heart tissue. Flow Cyt: SH-SY5Y cells. ICC/IF: HaCaT cells. IP: Mouse skeletal muscle lysate.
常规说明	<p>The clone number has been updated from S8b-1 to N8B/1, 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	N8B/1
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab93606于以下的经测试应用

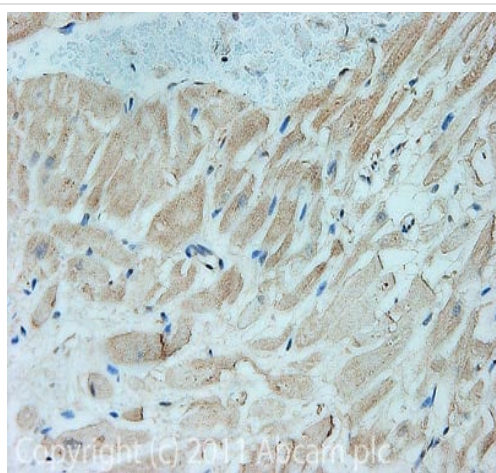
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
IP	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P		Use a concentration of 5 µg/ml. Antigen retrieval is not essential but may optimise staining.
ICC/IF		Use a concentration of 1 - 10 µg/ml.
Flow Cyt		Use 1µl for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.
组织特异性	Expressed in all tissues.
疾病相关	Defects in CACNB2 are the cause of Brugada syndrome type 4 (BRS4) [MIM:611876]. BRS4 is a heart disease characterized by the association of Brugada syndrome with shortened QT intervals. Brugada syndrome is a tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram (ECG). It can cause the ventricles to beat so fast that the blood is prevented from circulating efficiently in the body. When this situation occurs (called ventricular fibrillation), the individual will faint and may die in a few minutes if the heart is not reset.
序列相似性	Belongs to the calcium channel beta subunit family. Contains 1 SH3 domain.
细胞定位	Cell membrane > sarcolemma.

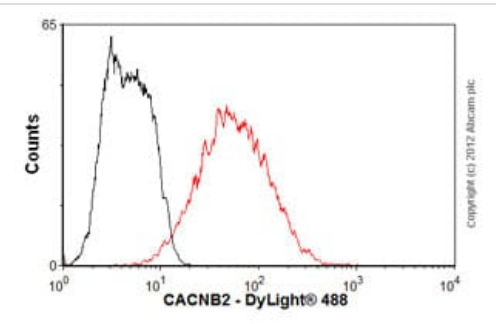
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CACNB2 antibody [N8B/1] (ab93606)

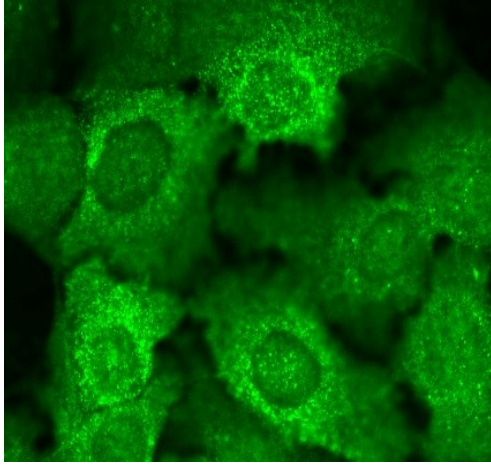
IHC image of ab93606 staining in Human Heart formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab93606, 5µg/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.



Flow Cytometry - Anti-CACNB2 antibody [N8B/1] (ab93606)

Overlay histogram showing SH-SY5Y cells stained with ab93606 (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. The cells were then incubated with the antibody (ab93606, 1µg/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 IgG1 [ICIGG1] (**ab91353**, 2µg/1x10⁶ 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.



Immunocytochemistry/ Immunofluorescence - Anti-CACNB2 antibody [N8B/1] (ab93606)

Cold 100% methanol-fixed HaCaT (human keratinocyte cell line) cells stained for CACNB2 (green) using ab93606 at 1/100 dilution in ICC/IF.

Secondary Antibody: FITC Goat Anti-Mouse at 1/50 dilution for 1 hour at room temperature.

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