

Anti-HCN1 antibody [S70] ab84816

重组

[1 Abreviews](#) [16 References](#) [6 图像](#)

概述

产品名称	Anti-HCN1 抗体[S70]
描述	小鼠单克隆抗体[S70] to HCN1
宿主	Mouse
特异性	No cross reactivity against HCN2
经测试应用	适用于: IHC-P, IHC-Fr, WB, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment within Rat HCN1 aa 750-950 (C terminal). 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 contact our Scientific Support team to discuss your requirements. Database link: Q9JKB0
阳性对照	WB: Rat brain lysate. IHC-P: Mouse cerebellum tissue, mouse brain tissue, human brain tissue. ICC: Human hippocampus tissue.
常规说明	The clone number has been updated from S70-28 to N70/28, 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated 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	S70
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab84816于以下的经测试应用

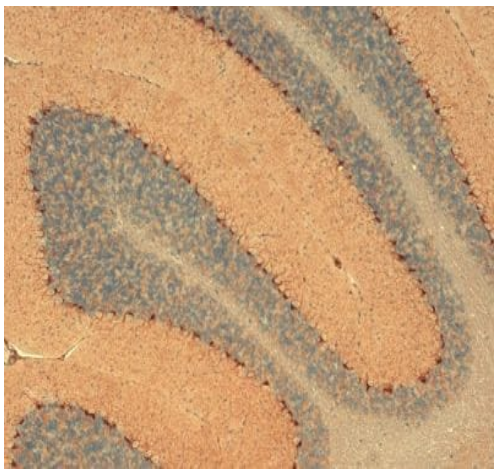
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 10 µg/ml. Detects a band of approximately 99 kDa (predicted molecular weight: 99 kDa).
Flow Cyt		Use 1-2µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

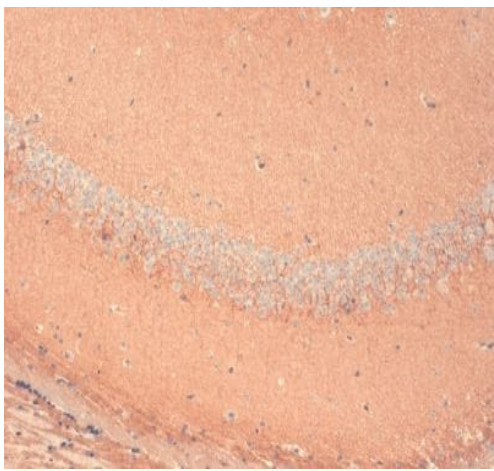
功能	Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Activated by cAMP, and at 10-100 times higher concentrations, also by cGMP. May mediate responses to sour stimuli.
组织特异性	Detected in brain, in particular in amygdala and hippocampus, while expression in caudate nucleus, corpus callosum, substantia nigra, subthalamic nucleus and thalamus is very low or not detectable. Detected at very low levels in muscle and pancreas.
序列相似性	Belongs to the potassium channel HCN family. Contains 1 cyclic nucleotide-binding domain.
结构域	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.
细胞定位	Membrane.

图片



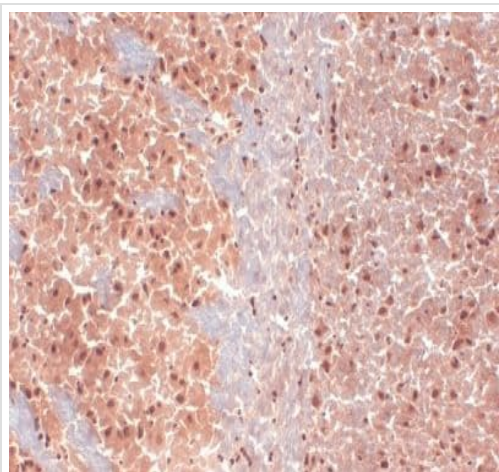
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HCN1 antibody [S70] (ab84816)

Immunohistochemistry analysis of 10% formalin-fixed mouse cerebellum tissue labelling HCN1 with ab84816 at 1/1000 dilution for 1 hour at room temperature, followed by biotinylated Goat Anti-Mouse antibody (brown) for 30 minutes at room temperature. Localization: Cytoplasmic staining of Purkinje cells. Counterstain: Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at room temperature. HRP/DAB detection.



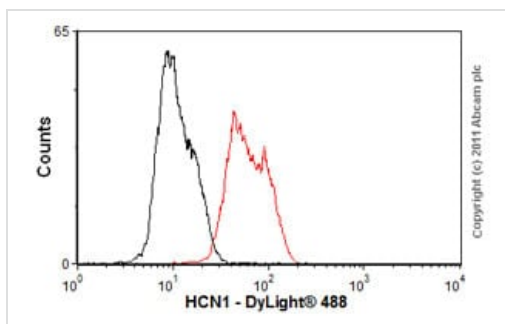
Immunohistochemistry (Frozen sections) - Anti-HCN1 antibody [S70] (ab84816)

Immunohistochemistry analysis of 10% formalin-fixed human frozen brain section labelling HCN1 with ab84816 at 1/1000 dilution for 1 hour at room temperature, followed by biotinylated Goat Anti-Mouse antibody (brown) for 30 minutes at room temperature. Localization: Neurons. Counterstain: Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at room temperature. HRP/DAB detection.



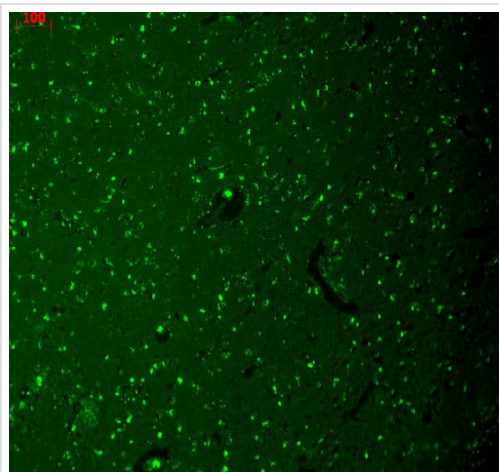
Immunohistochemistry (Frozen sections) - Anti-HCN1 antibody [S70] (ab84816)

Immunohistochemistry analysis of 10% formalin-fixed mouse frozen brain section labelling HCN1 with ab84816 at 1/1000 dilution for 1 hour at room temperature, followed by biotinylated Goat Anti-Mouse antibody (brown) for 30 minutes at room temperature. Counterstain: Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at room temperature. HRP/DAB detection.



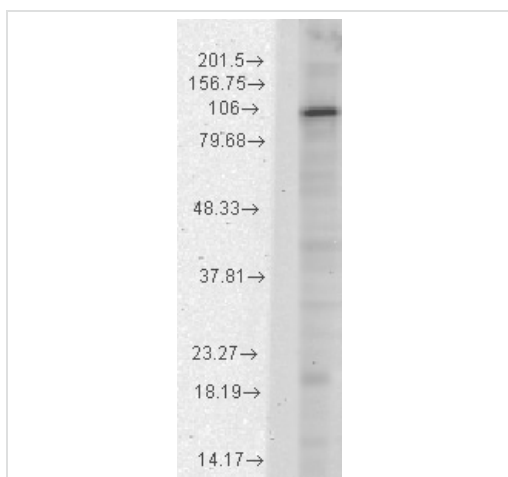
Flow Cytometry - Anti-HCN1 antibody [S70] (ab84816)

Overlay histogram showing SH-SY5Y cells stained with ab84816 (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 followed by the antibody (ab84816, 1 μ g/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](#), 2 μ g/1x10⁶ 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 min)/permeabilized in 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HCN1 antibody [S70] (ab84816)

Immunohistochemical analysis of paraffin-embedded (Bouin's Fixative - picric acid, acetic acid and formaldehyde) human hippocampus tissue labelling HCN1 with ab84816 at 1/1000 dilution, for 1 hour at RT followed by secondary antibody Goat Anti-Mouse (FITC) at 1/50 dilution, for 1 hour at RT. Membrane and cytosolic staining on human hippocampus tissue is observed.



Western blot - Anti-HCN1 antibody [S70] (ab84816)

Anti-HCN1 antibody [S70] (ab84816) at 1/1000 dilution + Rat brain membrane lysates at 15 μ g

Secondary

HRP-Sheep Anti-Mouse IgG antibody

Predicted band size: 99 kDa

Observed band size: 99 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Promise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors