

# Anti-HCN1 antibody [S70] ab84816

リコンビナント

**1 Abreviews**   **16 References**   **画像数 6**

### 製品の概要

製品名	Anti-HCN1 antibody [S70]
製品の詳細	Mouse monoclonal [S70] to HCN1
由来種	Mouse
特異性	No cross reactivity against HCN2
アプリケーション	<b>適用あり:</b> IHC-P, IHC-Fr, WB, Flow Cyt
種交差性	<b>交差種:</b> 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 <b><u>contact</u></b> our Scientific Support team to discuss your requirements. Database link: <b><u>Q9JKB0</u></b>
ポジティブ・コントロール	WB: Rat brain lysate. IHC-P: Mouse cerebellum tissue, mouse brain tissue, human brain tissue. ICC: Human hippocampus tissue.
特記事項	<p>The clone number has been updated from S70-28 to N70/28, 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&amp;As</p>

### 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 repeated 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	S70
アイソタイプ	IgG1

## 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ab84816の使用に適用されます**

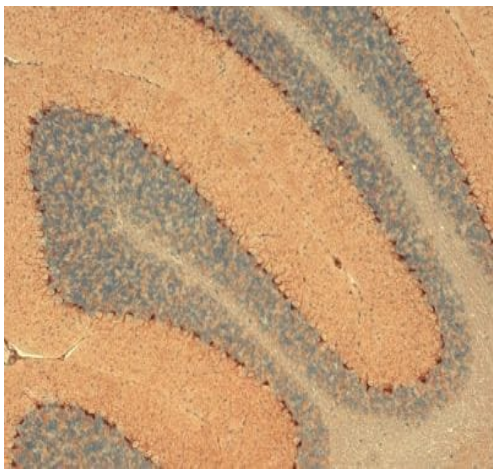
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
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 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## ターゲット情報

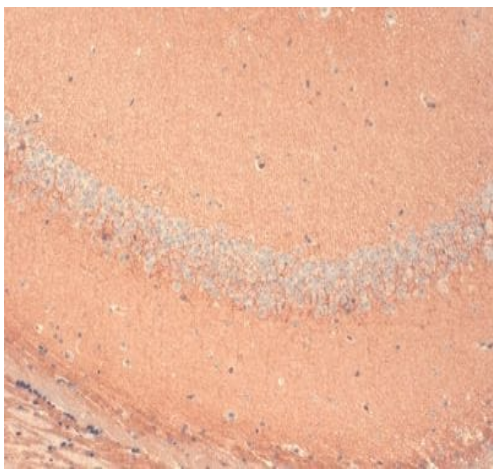
機能	Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Activated by cAMP, and at 10-100 times higher concentrations, also by cGMP. May mediate responses to sour stimuli.
組織特異性	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.
配列類似性	Belongs to the potassium channel HCN family. Contains 1 cyclic nucleotide-binding domain.
ドメイン	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.
細胞内局在	Membrane.

## 画像



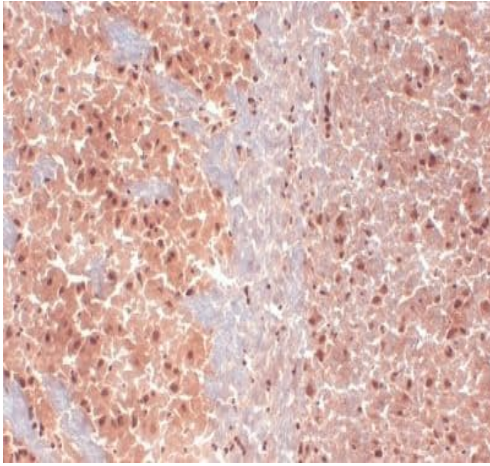
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HCN1 antibody [S70] (ab84816)

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  $\mu$ l for 5 minutes at room temperature. HRP/DAB detection.



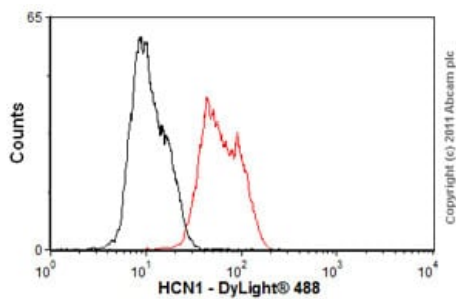
Immunohistochemistry (Frozen sections) - Anti-HCN1 antibody [S70] (ab84816)

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  $\mu$ l for 5 minutes at room temperature. HRP/DAB detection.



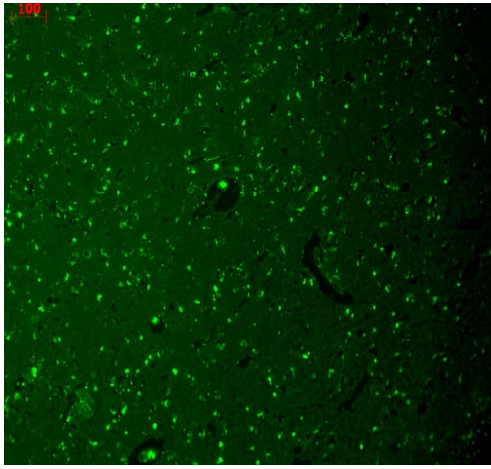
Immunohistochemistry (Frozen sections) - Anti-HCN1 antibody [S70] (ab84816)

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  $\mu$ l for 5 minutes at room temperature. HRP/DAB detection.



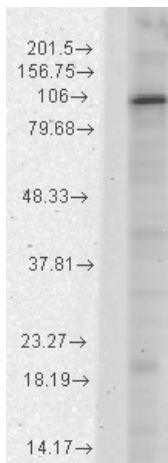
Flow Cytometry - Anti-HCN1 antibody [S70] (ab84816)

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 $\mu$ g/1x10<sup>6</sup> 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 $\mu$ g/1x10<sup>6</sup> 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 µg

#### Secondary

HRP-Sheep Anti-Mouse IgG antibody

**Predicted band size:** 99 kDa

**Observed band size:** 99 kDa

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