

**HCN1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14228b**

**Specification**

**HCN1 Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O60741</a>
Other Accession	<a href="#">O88704</a> , <a href="#">NP_066550.2</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>98796</b>
Antigen Region	<b>860-889</b>

**HCN1 Antibody (C-term) - Additional Information**

**Gene ID** 348980

**Other Names**

Potassium/sodium  
hyperpolarization-activated cyclic  
nucleotide-gated channel 1, Brain cyclic  
nucleotide-gated channel 1, BCNG-1, HCN1,  
BCNG1

**Target/Specificity**

This HCN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 860-889 amino acids from the C-terminal region of human HCN1.

**Dilution**

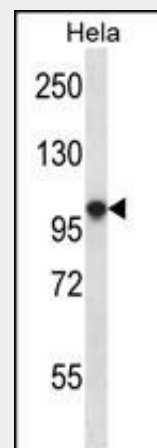
WB~~1:1000  
IHC-P~~1:10~50

**Format**

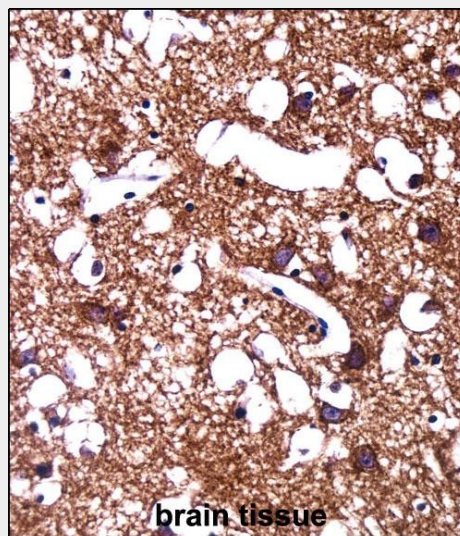
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw



HCN1 Antibody (C-term) (Cat. #AP14228b) western blot analysis in HeLa cell line lysates (35ug/lane). This demonstrates the HCN1 antibody detected the HCN1 protein (arrow).



HCN1 Antibody (C-term) (AP14228b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of HCN1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

cycles.

#### **Precautions**

HCN1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **HCN1 Antibody (C-term) - Protein Information**

**Name** HCN1

**Synonyms** BCNG1

#### **Function**

Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions (PubMed:<a href="http://www.uniprot.org/citations/28086084" target="\_blank">28086084</a>).  
Contributes to the native pacemaker currents in heart (If) and in neurons (Ih).  
May mediate responses to sour stimuli.

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein

#### **Tissue Location**

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

#### **HCN1 Antibody (C-term) - Background**

Hyperpolarization-activated cation channels of the HCN gene family, such as HCN1, contribute to spontaneous rhythmic activity in both heart and brain.

#### **HCN1 Antibody (C-term) - References**

Odefrey, F., et al. Cancer Res. 70(4):1449-1458(2010)  
Laurin, N., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (1), 95-103 (2009) :  
Woolcott, C.G., et al. Breast Cancer Res. 11 (1), R10 (2009) :  
Laurin, N., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (5), 600-605 (2008) :  
Tang, B., et al. Neurobiol. Dis. 29(1):59-70(2008)

#### **HCN1 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)