

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

HCN1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O60741
Other Accession	O88704 , NP_066550.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	98796
Antigen Region	860-889

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 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:[28086084](#)). 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

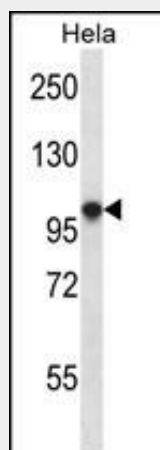
Detected in brain, in particular in amygdala and hippocampus, while expression in caudate nucleus, corpus callosum, substantia nigra, subthalamic nucleus and thalamus is very low or not detectable. Detected at very low levels in muscle and pancreas

HCN1 Antibody (C-term) - Protocols

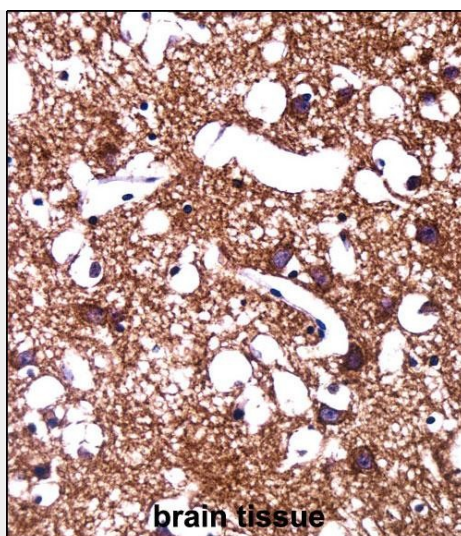
Provided below are standard protocols that you may find useful for product applications.

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

HCN1 Antibody (C-term) - Images



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.

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)