

For Research Use Only

HCN1 Polyclonal antibody

Catalog Number: 55222-1-AP **4 Publications**



Basic Information

Catalog Number: 55222-1-AP	GenBank Accession Number: NM_021072	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 673 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 348980	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: hyperpolarization activated cyclic nucleotide-gated potassium channel 1	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 99 kDa	
	Observed MW: 99-120 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : mouse brain tissue,
Species Specificity: human, mouse, rat	IP : mouse brain tissue,
Cited Species: human, mouse	IHC : human heart tissue, human cerebellum tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

HCN1, also named as BCNG1, belongs to the potassium channel HCN family. It hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. HCN1 contributes to the native pacemaker currents in heart (If) and in neurons (Ih). It is activated by cAMP, and at 10-100 times higher concentrations, also by cGMP. HCN1 may mediate responses to sour stimuli.

Notable Publications

Author	Pubmed ID	Journal	Application
Hui Yao	36587902	J Affect Disord	WB
Yi Yan	36538279	Neurosci Bull	WB
Yu-Han H Hsu	37207277	iScience	WB

Storage

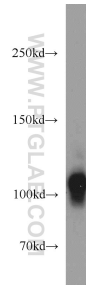
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

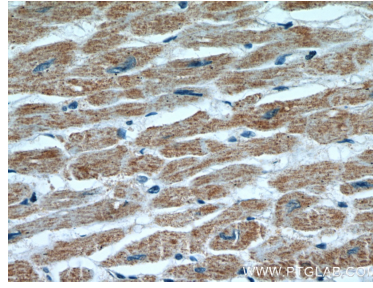
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

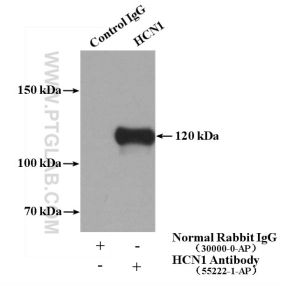
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55222-1-AP (HCN1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 55222-1-AP (HCN1 antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-HCN1 (IP:55222-1-AP, 4ug; Detection:55222-1-AP 1:1000) with mouse brain tissue lysate 4000ug.