

For Research Use Only

HCN1 Polyclonal antibody

Catalog Number: 55222-1-AP

6 Publications



Basic Information

Catalog Number:

55222-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_021072

GeneID (NCBI):

348980

UNIPROT ID:

O60741

Full Name:

hyperpolarization activated cyclic nucleotide-gated potassium channel 1

Calculated MW:

99 kDa

Observed MW:

99-120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse brain tissue,

IP : mouse brain tissue,

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
Xue-Zhong Cao	38961317	CNS Neurosci Ther	WB,IHC

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

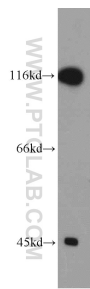
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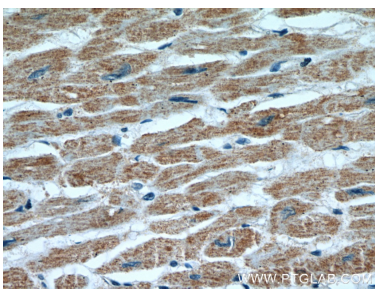
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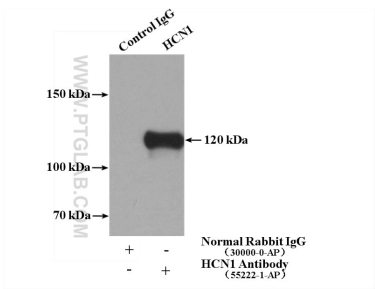
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55222-1-AP (HCN1 antibody) at dilution of 1:1000 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.