

For Research Use Only

HCN2 Polyclonal antibody

Catalog Number: 55245-1-AP

10 Publications



Basic Information

Catalog Number:

55245-1-AP

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001194

GeneID (NCBI):

610

UNIPROT ID:

Q9UL51

Full Name:

hyperpolarization activated cyclic nucleotide-gated potassium channel 2

Calculated MW:

97 kDa

Observed MW:

97-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:20-1:200

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, Jurkat cells

IP : mouse brain tissue,

IHC : human heart tissue, human brain tissue

IF-P : mouse heart 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

HCN2, also named as BCNG2, belongs to the potassium channel HCN family. It 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). HCN2 produces a large instantaneous current. It is activated by cAMP. HCN2 is modulated by intracellular chloride ions and pH; acidic pH shifts the activation to more negative voltages. This antibody is specific to HCN2.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyu Liu	32165274	Brain Res Bull	WB,IHC
Chandong Ding	28962131	Exp Ther Med	WB
Yi Yan	36538279	Neurosci Bull	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

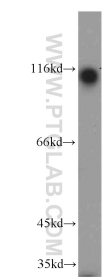
T: 4006900926

E: Proteintech-CN@ptglab.com

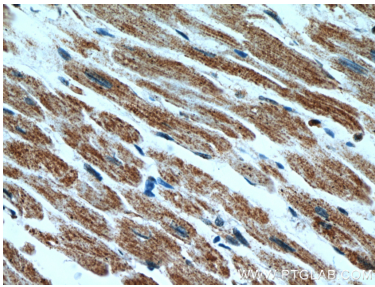
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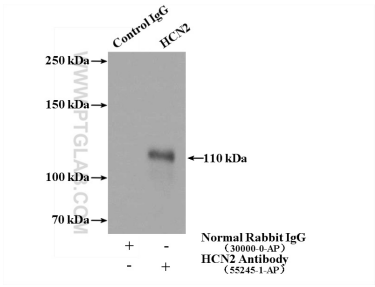
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55245-1-AP (HCN2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 55245-1-AP (HCN2 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-HCN2 (IP:55245-1-AP, 4ug; Detection:55245-1-AP 1:800) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using HCN2 antibody (55245-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L).