

For Research Use Only

HCN2 Polyclonal antibody

Catalog Number: 55245-1-AP **5 Publications**



Basic Information

Catalog Number:

55245-1-AP

Size:

150ul, Concentration: 1000 µg/ml by Nanodrop and 553 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001194

GeneID (NCBI):

610

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 ug for IP and 1:500-1:1000 for WB
IHC 1:20-1:200

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, Jurkat cells

IP: mouse brain tissue,

IHC: human heart tissue, human brain tissue

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
Donghong Zhang	27956497	Nucleic Acids Res	WB, IF

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

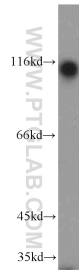
For technical support and original validation data for this product please contact:

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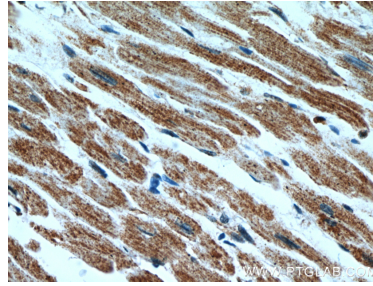
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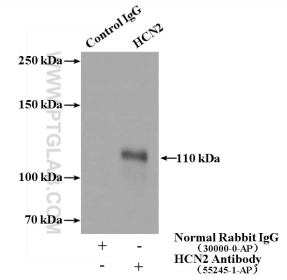
Selected Validation Data



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.