

For Research Use Only

# HCN2 Polyclonal antibody

Catalog Number: 55245-1-AP **10 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

**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 ug 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

**\*\*\* 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)

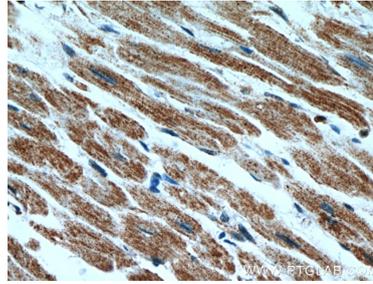
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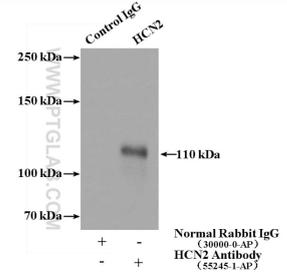
## Selected Validation Data



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).