

For Research Use Only

# HCN2 Polyclonal antibody

Catalog Number: 30946-1-AP

1 Publications



## Basic Information

### Catalog Number:

30946-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG34038

### 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:

60 kDa, 90 kDa, 120 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

**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, mouse cerebellum tissue, rat brain tissue

**IHC** : mouse brain tissue, mouse cerebellum tissue

## Background Information

HCN2, also named as BCNG2, belongs to the potassium channel HCN family. The molecular weight of immature HCN2 is 90 kDa, and the protein is about 120 kDa after n-terminal glycosylation. It has been found that 60 kDa of HCN2 protein can be identified in mouse heart samples. Although all protein isolation steps were handled on ice and in the presence of protease inhibitors to reduce protease-dependent effects and to minimize protein degradation, it is certainly possible that the presence of the 60 kDa HCN2 protein in the heart samples does, in fact, reflect protein degradation. (PMID:21796099, PMID: 19574228)

## Notable Publications

Author	Pubmed ID	Journal	Application
Xue-Zhong Cao	38961317	CNS Neurosci Ther	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

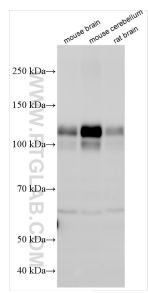
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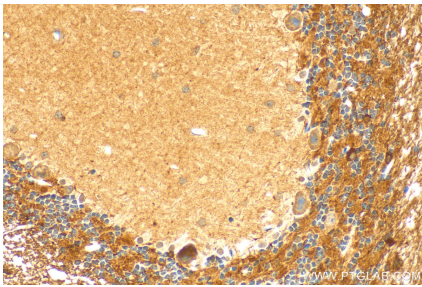
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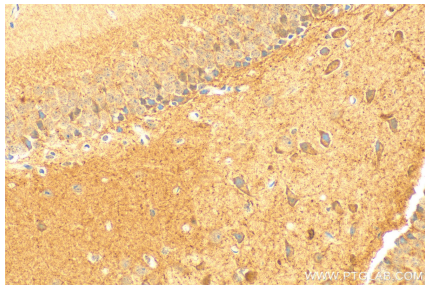
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30946-1-AP (HCN2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 30946-1-AP (HCN2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 30946-1-AP (HCN2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).