

For Research Use Only

# HCN4 Polyclonal antibody

Catalog Number: 55224-1-AP **5 Publications**



## Basic Information

<b>Catalog Number:</b> 55224-1-AP	<b>GenBank Accession Number:</b> NM_005477	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 800 µg/ml	<b>GeneID (NCBI):</b> 10021	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y3Q4	
<b>Isotype:</b> IgG	<b>Full Name:</b> hyperpolarization activated cyclic nucleotide-gated potassium channel 4	
	<b>Calculated MW:</b> 129 kDa	
	<b>Observed MW:</b> 140-160 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, hamster	

## Background Information

HCN4 belongs to the potassium channel HCN family. It hyperpolarization-activated ion channel with very slow activation and inactivation exhibiting weak selectivity for potassium over sodium ions. HCN4 may contribute to the native pacemaker currents in heart (If) and in neurons (Ih). It is activated by cAMP. HCN4 may mediate responses to sour stimuli. (PMID:10228147). Defects in HCN4 are a cause of sick sinus syndrome type 2 (SSS2). Defects in HCN4 are the cause of Brugada syndrome type 8 (BRS8). This antibody is specific to HCN4.

## Notable Publications

Author	Pubmed ID	Journal	Application
L Zhengshuai	36214984	Bull Exp Biol Med	WB
Danielle Pretorius	35243219	iScience	WB
Pei Xu	36484369	Mol Med Rep	WB

## 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:

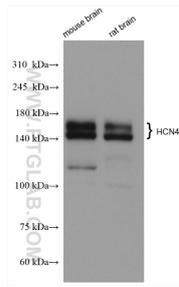
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55224-1-AP (HCN4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.