



Datasheet for ABIN6658105  
**anti-HCN1 antibody (C-Term)**



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3 Images

Overview

Quantity:	100 µg
Target:	HCN1
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HCN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: HCN1 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to the C terminus region of rat HCN1. Immunogen Type: Recombinant Protein
Clone:	S70-28
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-HCN1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HCN1 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against HCN2. Cross-reactivity with HCN1 from other sources has not been determined. Channels and Transporters research.

## Target Details

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Target:	HCN1
Alternative Name:	HCN1 ( <a href="#">HCN1 Products</a> )
Background:	<p>Synonyms: BCNG1, HAC2, potassium/sodium hyperpolarization activated cycli nucleotide gated channel 1</p> <p>Background: Hyperpolarization-activated cation channels of the HCN gene family, such as HCN1, play a crucial role in the regulatons of cell excitability. Importantly, they contribute to spontaneous rhythmic activity in both the heart and brain.</p> <p>Gene Name: Hcn1</p>
Gene ID:	84390
NCBI Accession:	<a href="#">NP_445827</a>
UniProt:	<a href="#">Q9JKB0</a>
Pathways:	<a href="#">Asymmetric Protein Localization</a>

## Application Details

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Application Notes:	<p>Immunohistochemistry Dilution: 0.1-1.0 µg/mL</p> <p>Application Note: Anti-HCN1 Antibody is suitable for use in WB, IP and IHC. Expect a band approximately ~100 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.</p> <p>Immunoprecipitation Dilution: User Optimized</p> <p>Western Blot Dilution: 1-10 µg/mL</p> <p>IF Microscopy Dilution: 1.0-10 µg/mL</p>
Restrictions:	For Research Use only

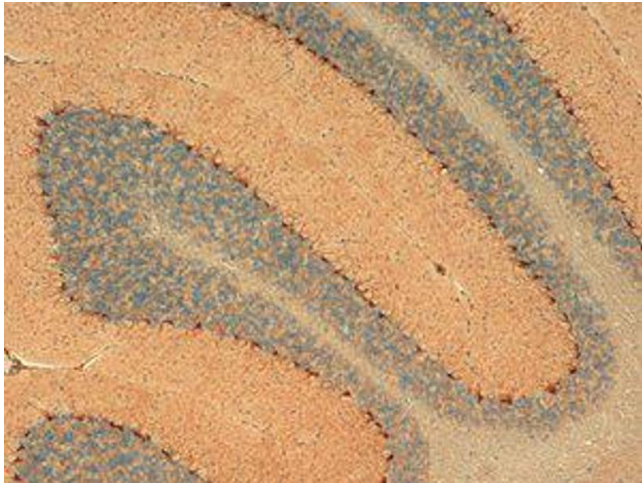
## Handling

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Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p>
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted

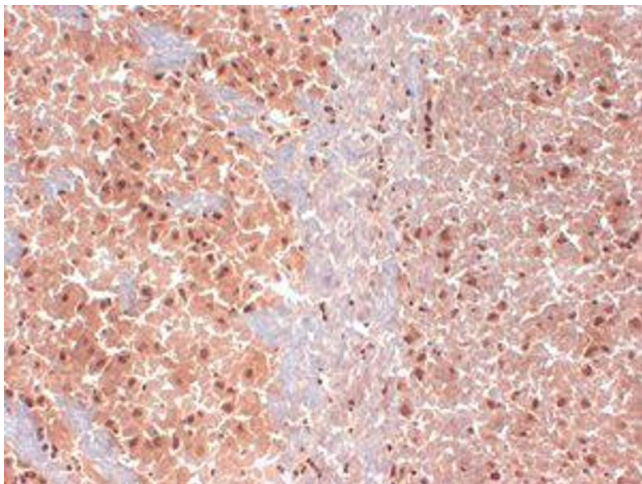
liquid. Dilute only prior to immediate use.

Images



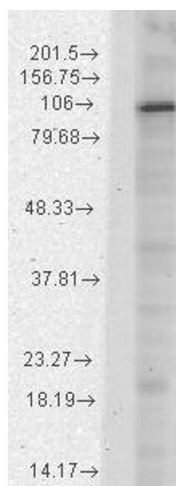
**Immunohistochemistry**

**Image 1.** HCN1 Immunohistochemistry  
 Immunohistochemistry of mouse anti-HCN1 antibody.  
 Tissue: mouse cerebellum. Fixation: frozen. Primary Antibody: HCN1 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization/Staining: Strong cytoplasm staining of the cerebellum giant neurons.



**Immunohistochemistry**

**Image 2.** HCN1 Immunohistochemistry  
 Immunohistochemistry of mouse anti-HCN1 antibody.  
 Tissue: mouse brain. Fixation: frozen. Primary Antibody: HCN1 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: cytoplasm. Staining: HCN1 as a red signal.



**Western Blotting**

**Image 3.** HCN1 Western Blot. Western Blot of mouse anti-HCN1 antibody. Lane 1: rat brain membrane lysate. Lane 2: none. Load: 35 µg per lane. Primary antibody: HCN1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 102.4 kDa, ~105 kDa for HCN1. Other band(s): none.