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Datasheet for ABIN6658119
anti-HCN4 antibody (C-Term)

2 Images

Overview

Quantity:	100 µg
Target:	HCN4
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HCN4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: HCN4 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to the C terminus region of rat HCN4. Immunogen Type: Recombinant Protein
Clone:	S114-10
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-HCN4 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HCN4 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against other HCNs. Cross-reactivity with HCN4 from other sources has not been determined. Channels and Transporters research.

Target Details

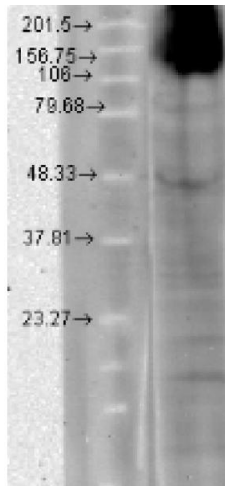
Target:	HCN4
Alternative Name:	HCN4 (HCN4 Products)
Background:	Synonyms: hyperpolarization activated cyclic nucleotide gated potassium channel 4 Background: Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and brain. Gene Name: Hcn4
Gene ID:	59266
NCBI Accession:	NP_067690
UniProt:	Q9JKA7

Application Details

Application Notes:	Immunohistochemistry Dilution: 0.1-1.0 µg/mL Application Note: Anti-HCN3 Antibody is suitable for use in WB, IHC and IF microscopy. Expect a band approximately ~130 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 1-10 µg/mL IF Microscopy Dilution: 1.0-10 µg/mL
Restrictions:	For Research Use only

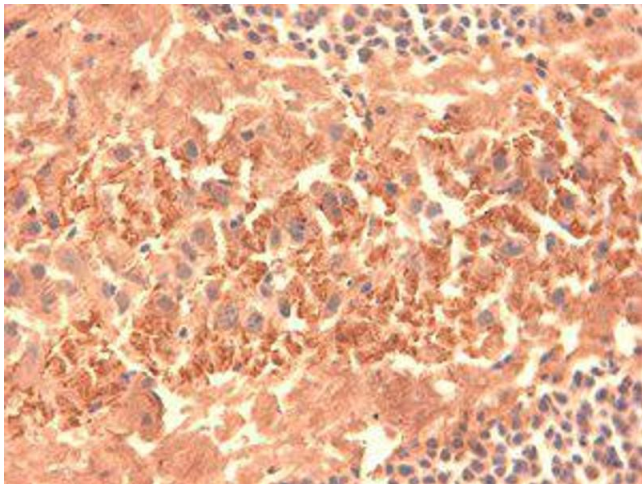
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
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.



Western Blotting

Image 1. HCN4 Western Blot. Western Blot of mouse anti-HCN4 antibody. Lane 1: molecular weight markers. Lane 2: T-HEK cells. Load: 35 µg per lane. Primary antibody: HCN4 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: 128.8kDa, ~150 kDa for HCN4. Other band(s): none.



Immunohistochemistry

Image 2. HCN4 Immunohistochemistry. Immunohistochemistry of mouse anti-HCN4 antibody. Tissue: mouse brain. Fixation: frozen. Primary Antibody: HCN4 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Nuclear. Staining: HCN4 as precipitated red signal with hematoxylin purple nuclear counterstain.