



Datasheet for ABIN7043278
anti-HCN1 antibody (Intracellular, N-Term)



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3 Images

Overview

Quantity:	25 µL
Target:	HCN1
Binding Specificity:	AA 6-24, Intracellular, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KPNSASNSRDDGNSVYPSK, corresponding to amino acid residues 6-24 of rat HCN1
Isotype:	IgG
Characteristics:	Anti-HCN1 Antibody (ABIN7043278, ABIN7044970 and ABIN7044971)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry and immunocytochemistry applications. It has been designed to recognize HCN1 from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

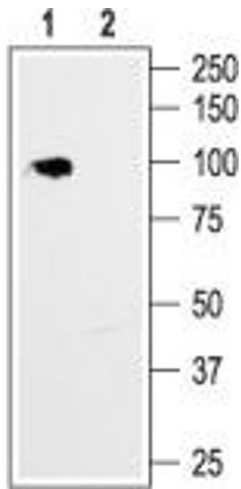
Target:	HCN1
Alternative Name:	HCN1 (HCN1 Products)
Background:	Alternative names: Hyperpolarization-Activated Cyclic Nucleotide-Gated Potassium Channel 1, HAC2, BCNG1, Hyperpolarization-Activated Cyclic Nucleotide-Gated Potassium Channel 1, HAC2, BCNG1
Gene ID:	84390
NCBI Accession:	NM_021072
UniProt:	Q9JKB0
Pathways:	Asymmetric Protein Localization

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

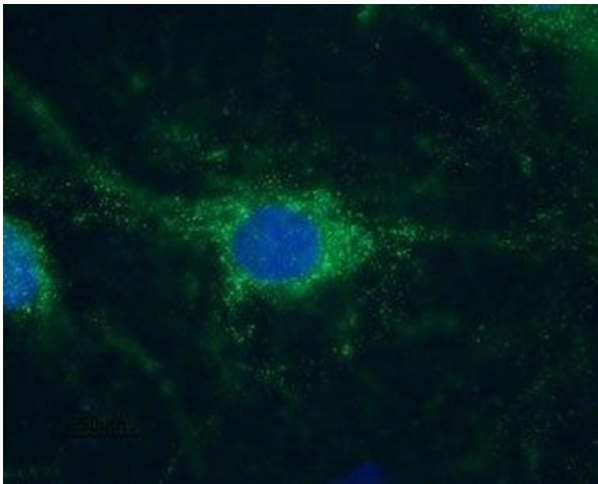
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



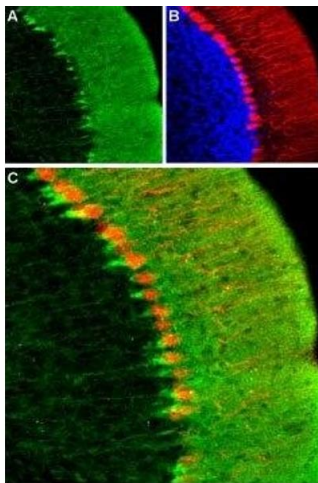
Western Blotting

Image 1. Western blot analysis of rat brain membrane: - 1. Anti-HCN1 Antibody (ABIN7043278, ABIN7044970 and ABIN7044971), (1:200). 2. Anti-HCN1 Antibody, preincubated with HCN1 Blocking Peptide (#BLP-PC056).



Immunocytochemistry

Image 2. Expression of HCN1 in rat DRG primary culture - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat DRG primary culture. Cells were stained with Anti-HCN1 Antibody (ABIN7043278, ABIN7044970 and ABIN7044971), (1:300), followed by goat anti-rabbit-AlexaFluor-488 secondary antibody (green). Nuclear staining of cells using the cell-permeable dye Hoechst 33342 (blue).



Immunohistochemistry

Image 3. Expression of HCN1 in mouse cerebellum - Immunohistochemical staining mouse cerebellum using Anti-HCN1 Antibody (ABIN7043278, ABIN7044970 and ABIN7044971). A. HCN1 (green) appears in the cerebellar pinceau. B. Calcium binding calbindinD28-K (red), a marker of Purkinje neurons, is stained in the same section. C. Merge of the images demonstrates the position of the HCN1-positive pinceau structures at the axon initial segment of Purkinje neurons.