

Datasheet for ABIN5518840

anti-HCN2 antibody (C-Term)

2 Images



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Overview

Quantity:	100 μg
Target:	HCN2
Binding Specificity:	AA 682-714, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HCN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Purpose:	Anti-HCN2 Antibody Picoband®
Purpose: Immunogen:	Anti-HCN2 Antibody Picoband® A synthetic peptide corresponding to a sequence at the C-terminus of human HCN2, identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
	A synthetic peptide corresponding to a sequence at the C-terminus of human HCN2, identical to
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human HCN2, identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Immunogen: Sequence:	A synthetic peptide corresponding to a sequence at the C-terminus of human HCN2, identical to the related mouse sequence, and different from the related rat sequence by one amino acid. VFNNQENAII QEIVKYDREM VQQAELGQRV GLF

ensuring unmatched performance.

Product Details Purification: Immunogen affinity purified. **Target Details** Target: HCN2 Alternative Name HCN2 (HCN2 Products) Background: Synonyms: Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2,Brain cyclic nucleotide-gated channel 2,BCNG-2,HCN2,BCNG2, Tissue Specificity: Highly expressed throughout the brain. Detected at low levels in heart. . Background: Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated ion channel 2 is a protein that in humans is encoded by the HCN2 gene. The HCN2 gene is localized on human chromosome 19p13.3 and contains eight exons spanning approximately 27 kb. Hyperpolarization-activated cation channels of the HCN gene family, such as HCN2, contribute to spontaneous rhythmic activity in both heart and brain. Molecular Weight: 97 kDa Gene ID: 610 **Application Details Application Notes:** Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Rat, Human Western blot, 0.1-0.5 µg/mL, Mouse, Rat, Human 1. Ludwig, A., Zong, X., Stieber, J., Hullin, R., Hofmann, F., Biel, M. Two pacemaker channels from human heart with profoundly different activation kinetics. EMBO J. 18: 2323-2329, 1999. 2. Santoro B, Liu DT, Yao H, Bartsch D, Kandel ER, Siegelbaum SA, Tibbs GR (May 1998). "Identification of a gene encoding a hyperpolarization-activated pacemaker channel of brain". Cell. 93 (5): 717-29. Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). Restrictions: For Research Use only Handling Format: Lyophilized Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

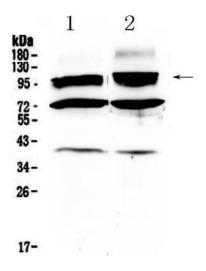
500 μg/mL

Concentration:

Handling

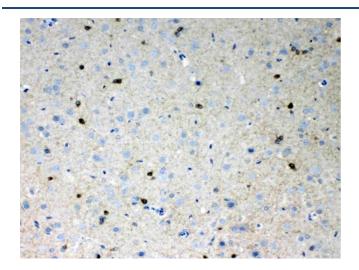
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of HCN2 using anti- HCN2 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HCN2 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 μ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HCN2 at approximately 97KD. The expected band size for HCN2 is at 97KD.



Immunohistochemistry

Image 2. IHC analysis of HCN2 using anti- HCN2 antibody . HCN2 was detected in paraffin-embedded section of rat brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti- HCN2 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.