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Anti-HCN1 Picoband Antibody

Catalog # ABO11901

Specification

Anti-HCN1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	O60741
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1(HCN1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-HCN1 Picoband Antibody - Additional Information

Gene ID 348980

Other Names
Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1, Brain cyclic nucleotide-gated channel 1, BCNG-1, HCN1, BCNG1

Calculated MW
98796 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cell membrane ; Multi-pass membrane protein .

Tissue Specificity
Detected in brain, in particular in amygdala and hippocampus, while expression in caudate nucleus, corpus callosum, substantia nigra, subthalamic nucleus and thalamus is very low or not detectable. Detected at very low levels in muscle and pancreas. .

Protein Name
Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human HCN1 recombinant protein (Position: E618-L890). Human HCN1 shares 82% amino acid (aa) sequence identity with both mouse and rat HCN1.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the potassium channel HCN family.

Anti-HCN1 Picoband Antibody - Protein Information

Name HCN1

Synonyms BCNG1

Function
Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions (PubMed:28086084). Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). May mediate responses to sour stimuli.

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Detected in brain, in particular in amygdala and hippocampus, while expression in caudate nucleus, corpus callosum, substantia nigra, subthalamic nucleus and thalamus is very low or not detectable. Detected at very low levels in muscle and pancreas

Anti-HCN1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HCN1 Picoband Antibody - Images

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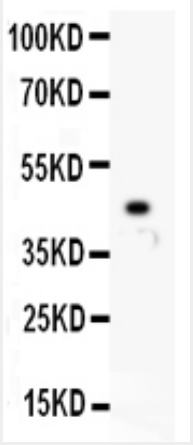
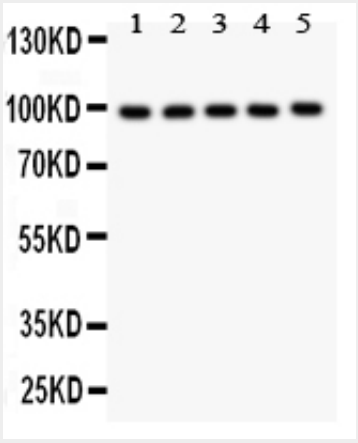


Anti- HCN1 antibody, ABO11901, Western blottingAll lanes: Anti HCN1 (ABO11901) at 0.5ug/mlWB: Recombinant Human HCN1 Protein 0.5ngPredicted bind size: 45KDObserved bind size: 45KD



Anti- HCN1 antibody, ABO11901, Western blottingAll lanes: Anti HCN1 (ABO11901) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: U87 Whole Cell Lysate at 40ugLane 5: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 99KDObserved bind size: 99KD

Anti-HCN1 Picoband Antibody - Background

Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 1, also known as HAC-2 or BCNG-1, is a protein that in humans is encoded by the HCN1 gene. It is mapped to 5p12. The membrane protein encoded by this gene is a hyperpolarization-activated cation channel that contributes to the native pacemaker currents in heart and neurons. The encoded protein can homodimerize or heterodimerize with other pore-forming subunits to form a potassium channel. This channel may act as a receptor for sour tastes. Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. It may mediates responses to sour stimuli.