

Datasheet for ABIN7043283
anti-HCN4 antibody (Intracellular, N-Term)



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3 Images

Overview

Quantity:	25 µL
Target:	HCN4
Binding Specificity:	AA 119-155, Intracellular, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This HCN4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	<p>Immunogen: GST fusion protein</p> <p>Immunogen Sequence: GST fusion protein with the sequence HGHLHDSAEERRLIAEGDASPGEDRTPPGGLAAEPERP, corresponding to amino acid residues 119-155 of human HCN4</p>
Isotype:	IgG
Characteristics:	<p>Guinea pig Anti-HCN4 Antibody (#), raised in guinea pigs, is a highly specific antibody directed against an epitope of the human protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize HCN4 from human, rat and mouse samples. The antigen used to immunize guinea pigs is the same as Anti-HCN4 Antibody (ABIN7043284, ABIN7044963 and ABIN7044964)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.</p>

Product Details

Purification: The serum was depleted of anti-GST antibodies by affinity chromatography on immobilized GST and then the IgG fraction was purified on immobilized antigen.

Target Details

Target: HCN4

Alternative Name: HCN4 ([HCN4 Products](#))

Background: Alternative names: HCN4, Hyperpolarization-activated cyclic nucleotide-gated potassium channel 4

Gene ID: 10021

NCBI Accession: [NM_005477](#)

UniProt: [Q9Y3Q4](#)

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: 0.8 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

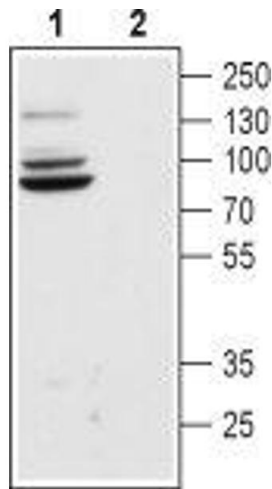
Preservative: Sodium azide

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

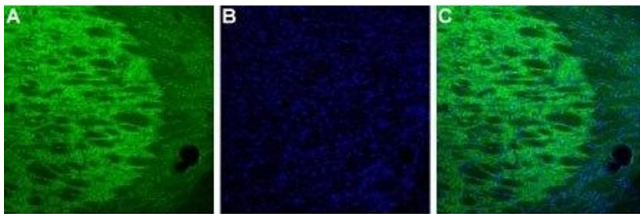
Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and

thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



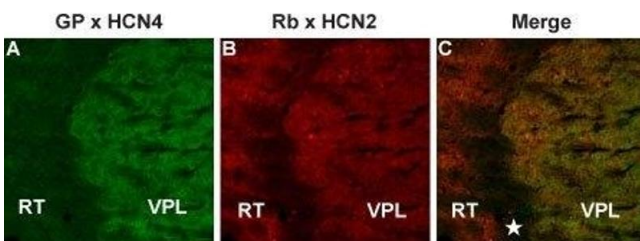
Western Blotting

Image 1. Western blot analysis of rat brain lysate: -
 1. Guinea pig Anti-HCN4 Antibody (ABIN7043283, ABIN7045364 and ABIN7045365), (1:200).
 2. Guinea pig Anti-HCN4 Antibody, preincubated with HCN4 Blocking Peptide (#BLP-PC052).



Immunohistochemistry

Image 2. Expression of HCN4 in mouse thalamus -
 Immunohistochemical staining of mouse thalamus using Guinea pig Anti HCN4 Antibody (ABIN7043283, ABIN7045364 and ABIN7045365). A. HCN4 staining (green) appears in the neuropil of the ventral posterior thalamic nucleus (VPL). B. Nuclear staining using DAPI as the counter stain (blue). C. Merged images of A and B.



Immunohistochemistry

Image 3. Multiplex staining of HCN4 and HCN2 in mouse thalamus -
 Immunohistochemical staining of mouse thalamus frozen section using Guinea pig Anti-HCN4 Antibody (ABIN7043283, ABIN7045364 and ABIN7045365) and rabbit Anti-HCN2 Antibody (ABIN7043279, ABIN7044940 and ABIN7044941). A. Staining of HCN4 (green) appears in the ventral posterior thalamic nucleus (VPL). B. In the same section as in A, staining of HCN2 (red) appears in the ventral posterior thalamic nucleus (VPL) and also in the reticular thalamic nucleus (RT). The area between these thalamic nuclei (star) is white matter and

neither protein is expressed in that region. C. Merged images of A and B.