

Datasheet for 200-301-F40**HCN1 Antibody****Overview**

Description:	Anti-HCN1 (MOUSE) Monoclonal Antibody - 200-301-F40
Item No.:	200-301-F40
Size:	100 µg
Applications:	IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Hyperpolarization-activated cation channels of the HCN gene family, such as HCN1, play a crucial role in the regulations of cell excitability. Importantly, they contribute to spontaneous rhythmic activity in both the heart and brain.
Synonyms:	BCNG1, HAC2, potassium/sodium hyperpolarization activated cycli nucleotide gated channel 1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S70
Format:	IgG1

Target Details

Gene Name:	Hcn1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	HCN1 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to the C terminus region of rat HCN1.
Purity/Specificity:	Anti-HCN1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HCN1 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against HCN2. Cross-reactivity with HCN1 from other sources has not been determined. Channels and Transporters research.

Relevant Links:	• NCBI - NP_445827.1 • GeneID - 84390 • UniProtKB - Q9JKB0
------------------------	--

Application Details

Tested Applications:	IHC, IP, WB
Application Note:	Anti-HCN1 Antibody is tested for use in WB, IP and IHC. Expect a band approximately ~100kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1.0-10ug/mL
IHC:	0.1-1.0ug/mL
IP:	User Optimized
WB:	1-10ug/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

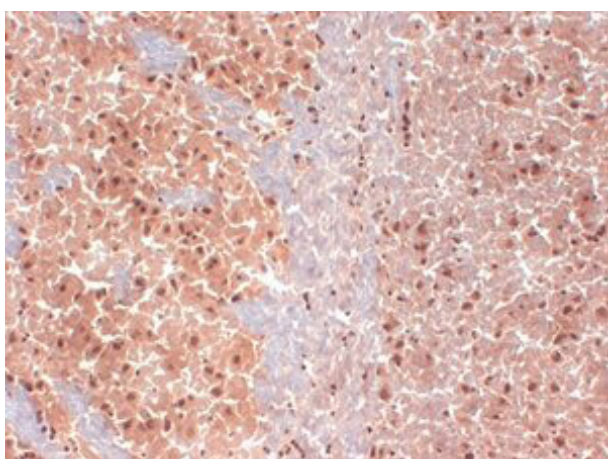
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



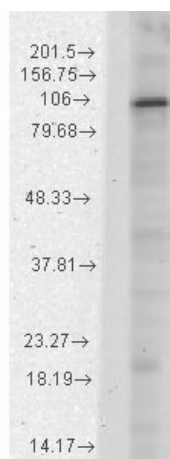
Immunohistochemistry

Immunohistochemistry of mouse anti-HCN1 antibody.
 Tissue: mouse cerebellum. Fixation: frozen. Primary
 Antibody: HCN1 antibody at 1 μ g/ml for 1h at RT. Secondary
 antibody: Peroxidase mouse secondary at 1:10,000 for 45
 min at RT. Localization/Staining: Strong cytoplasm staining
 of the cerebellum giant neurons.



Immunohistochemistry

Immunohistochemistry of mouse anti-HCN1 antibody.
 Tissue: mouse brain. Fixation: frozen. Primary Antibody:
 HCN1 antibody at 1 μ g/ml for 1h at RT. Secondary antibody:
 Peroxidase mouse secondary at 1:10,000 for 45 min at RT.
 Localization: cytoplasm. Staining: HCN1 as a red signal.



Western Blot

Western Blot of mouse anti-HCN1 antibody. Lane 1: rat
 brain membrane lysate. Lane 2: none. Load: 35 μ g per
 lane. Primary antibody: HCN1 antibody at 1:1000 for
 overnight at 4°C. Secondary antibody: IRDye800™ mouse
 secondary antibody at 1:10,000 for 45 min at RT. Block: 5%
 BLOTTO overnight at 4°C. Predicted/Observed size: 102.4
 kDa, ~105 kDa for HCN1. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.