

Datasheet for 200-301-F41**HCN2 Antibody****Overview**

Description:	Anti-HCN2 (MOUSE) Monoclonal Antibody - 200-301-F41
Item No.:	200-301-F41
Size:	100 µg
Applications:	IHC, IP, WB
Reactivity:	Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and brain.
Synonyms:	BCNG2, HAC1, brain cyclic nucleotide gated channel 2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S71
Format:	IgG1

Target Details

Gene Name:	Hcn2
Reactivity:	Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	HCN2 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to the cytoplasmic C-terminus region of rat HCN2.
Purity/Specificity:	Anti-HCN2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HCN2 from Rat and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against HCN1. Cross-reactivity with HCN2 from other sources has not been determined. Channels and Transporters research.

Relevant Links:	• NCBI - NP_446136.1 • GeneID - 114244 • UniProtKB - Q9JKA9
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Application Details

Tested Applications:	IHC, IP, WB
Application Note:	Anti-HCN2 Antibody is tested for use in WB, IP, ICC/IF, and IHC. Expect a band approximately ~95kDa 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:	1:100
IHC:	1:1000
IP:	User Optimized
WB:	1:1000

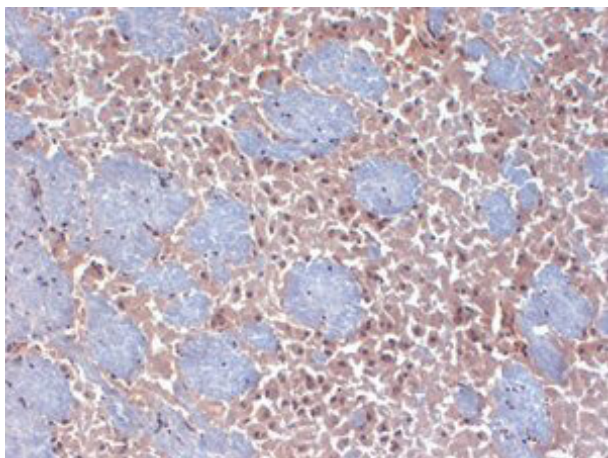
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/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

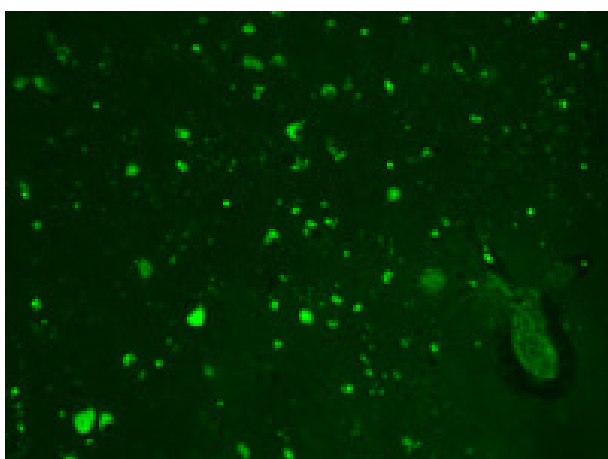
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



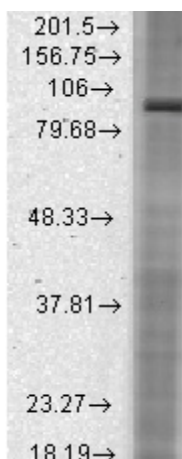
Immunohistochemistry

Immunohistochemistry of mouse anti-HCN2 antibody.
 Tissue: mouse brain. Fixation: frozen. Primary Antibody:
 HCN2 antibody at 1ug/ml for 1h at RT. Secondary antibody:
 Peroxidase mouse secondary at 1:10,000 for 45 min at RT.
 Localization: Nuclear.



Immunofluorescence Microscopy

Immunofluorescence of mouse anti-HCN2 antibody. Tissue:
 human hippocampal tissues. Fixation: 0.5% PFA. Antigen
 retrieval: not required. Primary Antibody: HCN2 antibody at
 10ug/ml for 1h at RT. Secondary antibody: Fluorescein
 mouse secondary at 1:10,000 for 45 min at RT. Localization:
 Nuclear. Staining: green fluorescent signal.



Western Blot

Western Blot of mouse anti-HCN2 antibody. Lane 1: rat
 brain membrane lysate. Lane 2: none. Load: 35 µg per
 lane. Primary antibody: HCN2 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: 94.9
 kDa, ~95 kDa for HCN2. 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.