

**Datasheet for 200-301-F43****HCN4 Antibody****Overview**

<b>Description:</b>	Anti-HCN4 (MOUSE) Monoclonal Antibody - 200-301-F43
<b>Item No.:</b>	200-301-F43
<b>Size:</b>	100 µg
<b>Applications:</b>	FC, IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse, Rat, Rabbit
<b>Host Species:</b>	Mouse

**Product Details**

<b>Background:</b>	Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and brain.
<b>Synonyms:</b>	hyperpolarization activated cyclic nucleotide gated potassium channel 4
<b>Host Species:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	N114/10
<b>Format:</b>	IgG1

**Target Details**

<b>Gene Name:</b>	Hcn4
<b>Reactivity:</b>	Human, Mouse, Rat, Rabbit
<b>Immunogen Type:</b>	Recombinant Protein
<b>Immunogen:</b>	HCN4 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to the C terminus region of rat HCN4.
<b>Purity/Specificity:</b>	Anti-HCN4 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HCN4 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against other HCNs. Cross-reactivity with HCN4 from other sources has not been determined. Channels and Transporters research.

<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">NCBI - NP_067690.1</a></li><li>• <a href="#">GeneID - 59266</a></li><li>• <a href="#">UniProtKB - Q9JKA7</a></li></ul>
------------------------	--

## Application Details

<b>Tested Applications:</b>	FC, IF, IHC, WB
<b>Application Note:</b>	Anti-HCN3 Antibody is tested for use in WB, IHC and IF microscopy. Expect a band approximately ~130kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>IF:</b>	1.0-10ug/mL
<b>IHC:</b>	0.1-1.0ug/mL
<b>WB:</b>	1-10ug/mL

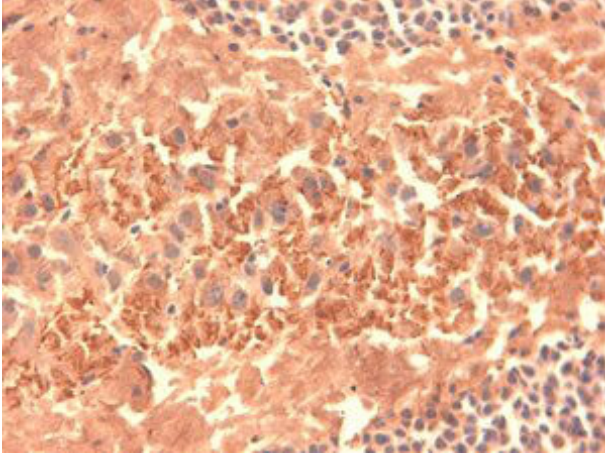
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	1X PBS, pH 7.4
<b>Preservative:</b>	0.09% (w/v) Sodium Azide
<b>Stabilizer:</b>	50% (v/v) Glycerol

## Shipping & Handling

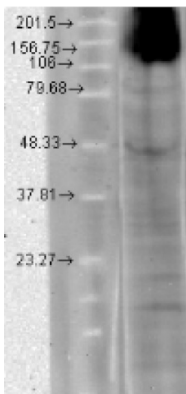
<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is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

## Images



### Immunohistochemistry

Immunohistochemistry of mouse anti-HCN4 antibody.  
Tissue: mouse brain. Fixation: frozen. Primary Antibody: HCN4 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Nuclear. Staining: HCN4 as precipitated red signal with hematoxylin purple nuclear counterstain.



### Western Blot

Western Blot of mouse anti-HCN4 antibody. Lane 1: molecular weight markers. Lane 2: T-HEK cells. Load: 35 µg per lane. Primary antibody: HCN4 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: 128.8kDa, ~150 kDa for HCN4. 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.