

## Anti-HCN3 (MOUSE) Monoclonal Antibody - 200-301-F42

**Code:** 200-301-F42

**Size:** 100 µg

**Product Description:** Anti-HCN3 (MOUSE) Monoclonal Antibody - 200-301-F42

**Concentration:** 1 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Mouse
<b>Gene Name</b>	Hcn3
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Stabilizer</b>	50% (v/v) Glycerol
<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>Synonyms</b>	KIAA1535, potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 3, hyperpolarization-activated cation channel 3, HAC-3
<b>Application Note</b>	Anti-HCN3 Antibody is suitable for use in WB, IF microscopy and IHC. Expect a band approximately ~90kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
<b>Background</b>	Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and brain.
<b>Purity And Specificity</b>	Anti-HCN3 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with HCN3 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against other HCNs. Cross-reactivity with HCN3 from other sources has not been determined. Channels and Transporters research.
<b>Western Blot</b>	1-10ug/mL
<b>Immunohistochemistry</b>	0.1-1.0ug/mL
<b>IF Microscopy</b>	1.0-10ug/mL
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	HCN3 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to the C terminus region of mouse HCN3.
<b>General Reference</b>	<ol style="list-style-type: none"> <li>Hille B. (2001) Ion Channels of Excitable Membranes, 3rd Ed., Sinauer Associated Inc.:Sunderland, MA USA.</li> <li><a href="http://www.iochannels.org">www.iochannels.org</a></li> <li>Zong X., et al. (2005) J Biol Chem. 280(40): 34224-34233</li> </ol>

### Related Products

611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
BSA-30	BOVINE SERUM ALBUMIN 30% Solution - BSA-30
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070
612-401-C83	Anti-GluR1 pS845 Antibody612-401-C83

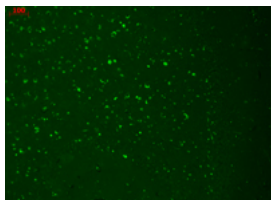
### Related Links

NCBI - NP\_032253.1

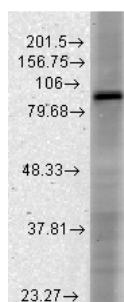
[http://www.ncbi.nlm.nih.gov/protein/NP\\_032253.1](http://www.ncbi.nlm.nih.gov/protein/NP_032253.1)

## Images

- 1 Immunofluorescence of mouse anti-HCN3 antibody. Tissue: human hippocampal tissues. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary Antibody: HCN3 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.



- 2 Western Blot of mouse anti-HCN3 antibody. Lane 1: rat brain membrane lysate. Lane 2: none. Load: 35 µg per lane. Primary antibody: HCN3 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: 86.6 kDa, ~90 kDa for HCN3. 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.