PRODUCT INFORMATION

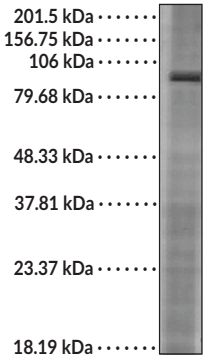
HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37)

Item No. 13707

Overview and Properties

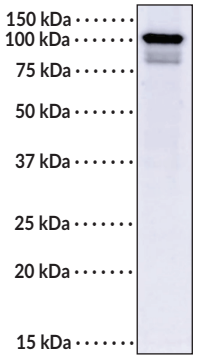
Contents:	This vial contains 100 µg of protein G-purified monoclonal antibody.
Immunogen:	Fusion protein amino acids 761-863 (cytoplasmic C-terminus) of rat HCN2
Species Reactivity:	(+) Human, mouse, rat; other species not tested
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	100 µl PBS, pH 7.4, containing 50% glycerol and 0.09% sodium azide
Concentration:	1 mg/ml
Clone:	S70
Host:	Mouse
Isotype:	IgG1
Applications:	Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP), and Western blot (WB); the recommended starting dilution is 1:100 for ICC and 1:1,000 for IHC and WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images



Lane 1: HCN2 Cyclic Nucleotide-gated Channel (15 µg)

WB of HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37).



Lane 1: HCN2 Cyclic Nucleotide-gated Channel (15 µg)

WB of mouse brain showing detection of approximately 95 kDA HCN2 protein using HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37).

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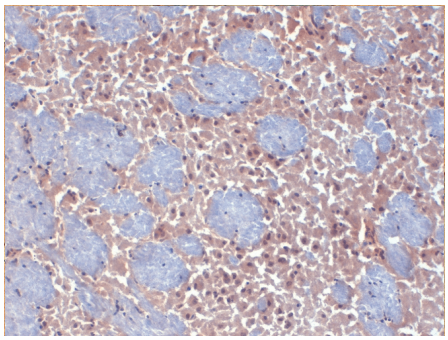
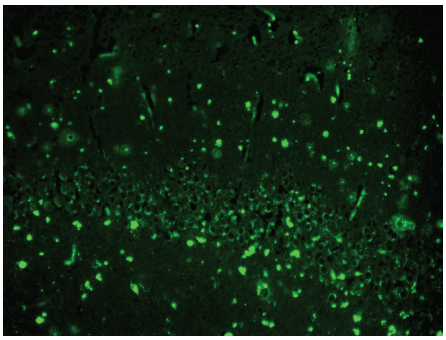
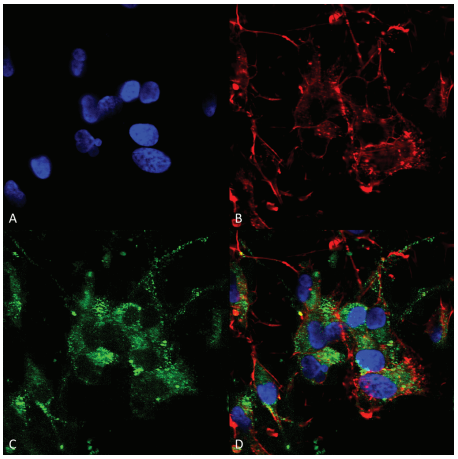
Images



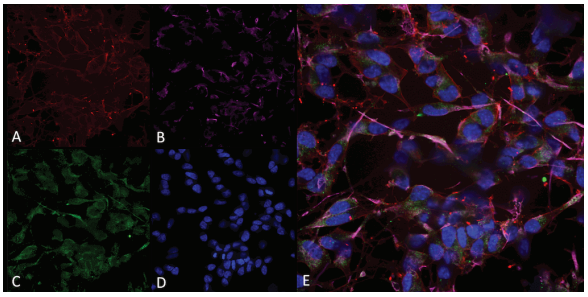
Immunohistochemical staining of formalin-fixed mouse brain using HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37) at a dilution of 1:1,000 for one hour at room temperature. Following incubation with HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37), cells/tissues were incubated with biotinylated goat anti-mouse, streptavidin peroxidase, DAB chromogen (brown) for 30 minutes at room temperature and stained with Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for five minutes at room temperature.



Immunohistochemical staining of Bouin's fixative and paraffin-embedded human hippocampus using HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37) at a dilution of 1:100 for one hour at room temperature. Following incubation with HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37), tissues were incubated with FITC goat anti-mouse (green) for one hour at room temperature.



Immunocytochemical/Immunofluorescence staining of formalin-fixed human neuroblast using HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37) at a dilution of 1:50 for overnight at 4°C with slow rocking. Following incubation with HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37), cells/tissues were incubated with AlexaFluor 488 at a dilution of 1:1,000 for 1 hour at room temperature and stained with Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 minutes at room temperature with the following: (A) Hoechst (blue) nuclear stain (B) Phalloidin-iFluor 647 (red) F-Actin stain (C) HCN1 Antibody (D) Composite.



Immunocytochemical/Immunofluorescence staining of formalin-fixed human Differentiated SH-SY5Y using HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37) at a dilution of 1:100. Following incubation with HCN2 Cyclic Nucleotide-gated Channel Monoclonal Antibody (Clone S71-37), cells/tissues were incubated with AlexaFluor 488 and stained with Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain with the following: (A) Phalloidin (B) Anti-beta III Tubulin Ab. (C) HCN2 Antibody (D) Hoechst (E) Composite.

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Description

Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and the brain.[1]

Reference

1. Zong, X., Eckert, C., Yuan, H., *et al.* A novel mechanism of modulation of hyperpolarization-activated cyclic nucleotide-gated channels by Src kinase. *J. Biol. Chem.* **280(40)**, 34224-34232 (2005).

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