

## Product Datasheet

## Anti-HCN1 Antibody FL650 Conjugate



## Overview

<b>Catalog #</b>	75-110-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N70/28
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Gerbil, Human, Non-Human Primate, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 778-910 (cytoplasmic C-terminus) of rat HCN1 (accession number Q9JKB0); Mouse: 96% identity (128/133 amino acids identical) produced recombinantly in E. Coli
<b>Molecular Weight</b>	100 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-110-FL650, RRID: AB_2939415

## Details

<b>Target Description</b>	HCN1 is a member of the hyperpolarization-activated cyclic nucleotide gated channel family, also known as pacemaker channels. This family has a role in rhythmic activity of the heart and firing neurons. HCN channels are made up of four subunits, HCN1-4 and can be formed in multiple combinations. HCN1 is found in the hippocampus, neocortex, and cerebellar cortex of brain. Alterations in this protein have been implicated in the disease early infantile epileptic encephalopathy.
<b>Specificity</b>	No cross-reactivity against HCN2
<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
<b>Quality Control Tests</b>	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

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