

## Product Datasheet

## Anti-HCN4 Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-150-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N114/10
<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, Mouse, Pig, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1019-1108 (cytoplasmic C-terminus) of rat HCN4 (accession number Q9JKA7) produced recombinantly in E. Coli
<b>Molecular Weight</b>	130 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-150-FL550, RRID: AB_2939557

## Details

<b>Target Description</b>	HCN4 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. HCN4 is found in the cell membrane as a multi pass membrane protein in the sino-atrial node of the heart. This protein is highly expressed in neurons in the thalamus and other brain regions and testis. Mutations in HCN4 have been found in several types of sinus bradycardia.
<b>Specificity</b>	No cross-reactivity against other HCN's
<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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