

Product Datasheet

Anti-Kir2.1 K⁺ Channel Antibody FL550 Conjugate

Overview

Catalog #	75-210-FL550
Conjugate	FL550 Ex: 550 nm, Em: 575 nm
Isotype	IgG1
Clone Number	N112B/14
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, and Rat
Immunogen	Synthetic peptide amino acids 390-411 (cytoplasmic C-terminus) of mouse Kir2.1 (accession number P35561)
Molecular Weight	55 kDa
Cite this Antibody	Antibodies Inc Cat# 75-210-FL550, RRID: AB_2939777

Details

Target Description	Kir2.1 (KCNJ2) is a member of the inward rectifier potassium ion channel family which also includes Kir2.2 and Kir2.3. Kir2.1 is expressed in the membranes of many tissues, including heart, skeletal muscle, kidney and diffusely distributed throughout the brain. Kir2.1 has a role in cardiac excitability and has been shown to have interactions with CLG4, Interleukin 16 and TRAK2. Defects in Kir2.1 are involved with the diseases long QT syndrome type 7 (also known as andersen-Tawil syndrome), short QT syndrome 3, and Familial Atrial Fibrillation 9.
Specificity	No cross-reactivity against Kir2.2 or Kir2.3
Purification Method	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.
Quality Control Tests	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.

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.

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