

Product Datasheet

Anti-Kir2.3 K⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-069-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N25/35
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	Fusion protein amino acids 390-445 of human Kir2.3 (accession number NP_032453) produced recombinantly in E. Coli
Molecular Weight	45 kDa
Cite this Antibody	Antibodies Inc Cat# 75-069-FL594, RRID: AB_2939286

Details

Target Description	Inward rectifier potassium channel 4 or Kir2.3 is encoded by the gene KCNJ4. Kir2.3 is a member of the inward rectifier potassium ion channel family and plays a role in excitability of muscle cells and neurons. Kir2.3 is an integral membrane protein that is found expressed in heart, skeletal muscle, and several different brain regions including the hippocampus. Diseases associated with KCNJ4 include Long Qt Syndrome 9 and Seizures, Sensorineural Deafness, Ataxia, Mental Retardation, And Electrolyte Imbalance.
Specificity	No cross-reactivity against Kir2.1 or Kir2.2
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 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.

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