

Product Datasheet

Anti-Kir6.1 Potassium Channel Antibody FL490 Conjugate



Overview

Catalog #	75-394-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2a
Clone Number	N366/60
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	Mouse and Rat
Immunogen	Fusion protein amino acids 306-424 (cytoplasmic C-terminus) of rat Kir6.1 (accession number Q63664) produced recombinantly in E. Coli
Molecular Weight	45 kDa
Cite this Antibody	Antibodies Inc Cat# 75-394-FL490, RRID: AB_2940296

Details

Target Description	ATP-sensitive inward rectifier potassium channel 8 or Kir6.1 is encoded by the gene Kcnj8. Kir6.1 is an integral membrane protein which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. In this manner, Kir6.1 plays a role in modifying Ca ²⁺ release from intracellular stores. Kir6.1 is expressed in many tissues including in pancreatic islets, brain, skeletal muscle and heart and found distributed in mitochondria and endoplasmic reticulum. Defects in this gene may be a cause of J-wave syndromes and sudden infant death syndrome (SIDS) and Cantu Syndrome.
Specificity	Does not cross-react with Kir6.2
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.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

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