

## Product Datasheet

## Anti-Kir6.1 Potassium Channel Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-394-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N366/60
<b>Size</b>	200 $\mu$ L
<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>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 306-424 (cytoplasmic C-terminus) of rat Kir6.1 (accession number Q63664) produced recombinantly in E. Coli
<b>Molecular Weight</b>	45 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-394-FL594, RRID: AB_2940298

## Details

<b>Target Description</b>	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 <sup>2+</sup> 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.
<b>Specificity</b>	Does not cross-react with Kir6.2
<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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