

## Product Datasheet

## Anti-Kv7.1/KCNQ1 K+ Channel Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-081-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N37A/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>	Hamster, Human, Mouse, Rabbit, Rat, and Xenopus
<b>Immunogen</b>	Fusion protein amino acids 2-101 of human KCNQ1(accession number P51787) produced recombinantly in E. Coli
<b>Molecular Weight</b>	75 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-081-FL594, RRID: AB_2939310

## Details

<b>Target Description</b>	Potassium voltage-gated channel subfamily Q member 1 is encoded by the gene KCNQ1. KCNQ1 is a member of the potassium channel family, KQT (TC 1.A.1.15) subfamily, Kv7.1/KCNQ1 sub-subfamily. KCNQ1 is a voltage-gated potassium channel that is required for the repolarization phase of the cardiac action potential. KCNQ1 can form heteromultimers with two other potassium channel proteins, KCNE1 and KCNE3. KCNQ1 is expressed in the heart, pancreas, kidney, prostate, small intestine, and peripheral blood leukocytes. Diseases associated with KCNQ1 include Long QT Syndrome <sup>1</sup> , Jervell and Lange-Nielsen Syndrome, atrial fibrillation familial 3, short QT syndrome 2, and atrial fibrillation.
<b>Specificity</b>	No cross-reactivity reported
<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 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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