

Product Datasheet

Anti-Kv7.1/KCNQ1 K+ Channel Antibody FL490 Conjugate



Overview

Catalog #	75-081-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N37A/10
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	Hamster, Human, Mouse, Rabbit, Rat, and Xenopus
Immunogen	Fusion protein amino acids 2-101 of human KCNQ1(accession number P51787) produced recombinantly in E. Coli
Molecular Weight	75 kDa
Cite this Antibody	Antibodies Inc Cat# 75-081-FL490, RRID: AB_2939308

Details

Target Description	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 Syndrome1, Jervell and Lange-Nielsen Syndrome, atrial fibrillation familial 3, short QT syndrome 2, and atrial fibrillation.
Specificity	No cross-reactivity reported
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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