

Product Datasheet

Anti-Kv2.1 K+ Channel Antibody FL550 Conjugate



Overview

Catalog # 75-014-FL550

Conjugate FL550 Ex: 550 nm, Em: 575 nm

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 Synthetic peptide amino acids 837-853 (HMLPGGGAHGSTRDQSI, cytoplasmic Cterminus) of rat

Kv2.1 (accession number P15387)

Molecular Weight 105-125 kDa (varies with cell background due to phosphorylation)

Cite this Antibody Antibodies Inc Cat# 75-014-FL550, RRID: AB 2939117

Details

Target Description

Kv 2.1 K+ channel (Potassium voltage-gated channel subfamily B member 1), which is encoded by KCNB1 gene, is a member of the Potassium voltage-gated channel familly. This protein, mainly expressed in the central nervous system, functions as a delayed rectifier. Indeed, it regulates the action potential (AP) repolarization as well as duration and frequency of repetitive AP firing in neurons, muscle cells and endocrine cells. Kv2.1 K+ channel switches between open or closed conformation in response to the voltage difference across the membrane. This process directs the voltage-dependent potassium ion permeability of excitable membranes, which lets potassium ions pass in accordance with their electrochemical gradient. Kv2.1 K+ channel is widely used as a marker to measure membrane excitability in hippocampal neurons.

Specificity No cross-reactivity against rat Kv2.2

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°C for long term storage. For short term storage, store at 2-8°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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