

Product Datasheet

Anti-Kv2.1 K⁺ Channel (External) Antibody FL594 Conjugate

Overview

Catalog #	75-159-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2a
Clone Number	K39/25
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	Human, Mouse, and Rat
Immunogen	Synthetic peptide amino acids 211-229 (LPELQSLDEFGQSTDNPQL, extracellular S1-S2 loop) of rat Kv2.1 (accession number NP_037318)
Molecular Weight	105-125 kDa (varies with cell background due to phosphorylation)
Cite this Antibody	Antibodies Inc Cat# 75-159-FL594, RRID: AB_2939590

Details

Target Description	Potassium voltage-gated channel subfamily B member 1 is encoded by the gene KCNB1. KCNB1 is a member of the potassium channel family, B (Shab) (TC 1.A.1.2) subfamily, Kv2.1/KCNB1 sub-subfamily. KCNB1 is a delayed rectifier potassium channel that mediates transmembrane potassium transport. KCNB1 contributes to the regulation of action potential (AP) repolarization, duration and frequency of repetitive AP firing in neurons, muscle cells, and endocrine cells, and plays a role in homeostatic attenuation of electrical excitability throughout the brain. KCNB1 is expressed in the brain, heart, lung, liver, colon, kidney, and adrenal gland. Diseases associated with KCNB1 include early infantile epileptic encephalopathy 26, undetermined early-onset epileptic encephalopathy, visual epilepsy, and alacrima, achalasia, and mental retardation syndrome.
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 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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