

Product Datasheet

Anti-Kvbeta1.2 K+ Channel Antibody FL650 Conjugate



Overview

Catalog #	75-019-FL650
Conjugate	FL650 Ex: 655 nm, Em: 676 nm
Isotype	IgG1
Clone Number	K47/42
Size	200 μ L
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 9-28 (ADIPSPKLGPKSSESALKC, unique Nterminus) of human Kv1.2 (accession number NP_003462)
Molecular Weight	65 kDa
Cite this Antibody	Antibodies Inc Cat# 75-019-FL650, RRID: AB_2939139

Details

Target Description	Voltage-gated potassium channel subunit beta-1 or Kv β 1.1 is encoded by the gene KCNAB1. Kv β 1.1 is a member of the potassium channel, voltage-gated, shaker-related subfamily. Alternative splicing of KCNAB1 allows for three distinct proteins to be made, Kv β 1.1, Kv β 1.2, and Kv β 1.3. Each of these has a unique N terminus. Kv β 1.1 is a cytoplasmic subunit that modulates the characteristics of the membrane spanning, channel-forming alpha-subunits. Beta subunits can promote the closure of channels or enhance channel activity depending on the channel members. Kv β 1 is predominantly expressed in brain and found in hippocampus, cerebral cortex, caudate putamen, colliculus and cerebellum. Diseases associated with this gene include Episodic Ataxia, Type 1 and Familial Temporal Lobe Epilepsy, 3
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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