

Product Datasheet

Anti-Kvbeta1.1 K+ Channel Antibody FL490 Conjugate



Overview

Catalog #	75-018-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2b
Clone Number	K9/40
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, Non-Human Primate, and Rat
Immunogen	Synthetic peptide amino acids 7-28 (unique N-terminus) of rat Kv1.1 (TEHNLKSRNGEDRLLSKQSST; accession number NP_058999)
Molecular Weight	44 kDa
Cite this Antibody	Antibodies Inc Cat# 75-018-FL490, RRID: AB_2939132

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	Does not cross-react with Kv β 1.2, Kv β 1.3, Kv β 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 IHC on either rat or mouse brain 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.

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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