

Product Datasheet

Anti-Kv3.1B K⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-041-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N16B/8
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, Non-Human Primate, Mouse, and Rat
Immunogen	Fusion protein amino acids 437-585 (cytoplasmic C-terminus) of rat Kv3.1b (accession number P25122) produced recombinantly in E. Coli
Molecular Weight	110 kDa
Cite this Antibody	Antibodies Inc Cat# 75-041-FL490, RRID: AB_2939196

Details

Target Description	Potassium voltage-gated channel subfamily C member 1, or Kv3.1b is encoded by the gene KCNC1. Kv3.1 is a member of the Shaw subfamily of voltage gated potassium channels. Kv3.1b is expressed in many parts of the brain including the cerebellum, globus pallidus, subthalamic nucleus, substantia nigra, cortical and hippocampal in neurons at presynaptic membranes. It is also expressed in retinal ganglion cells and muscle and testis tissues. It is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. Its function is important in repolarization of action potentials and is expressed in neurons that execute repetitive high frequency firing. Alterations in expression are associated with certain types of epilepsy, spinocerebellar ataxia, unverricht-lundborg syndrome and demyelinating diseases.
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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