

Product Datasheet

Anti-Kv3.4 K⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-112-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N72/16
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 175-192 (GDEAGDDERELALQRLGP) of rat Kv3.4 (accession number Q63734)
Molecular Weight	70 kDa (100 kDa in brain due to glycosylation)
Cite this Antibody	Antibodies Inc Cat# 75-112-FL490, RRID: AB_2939420

Details

Target Description	Potassium voltage-gated channel subfamily C member 4 or Kv3.4 potassium channel, is a member of the potassium channel, voltage-gated, shaker-related subfamily and the Shaw subfamily (the family includes 4 members Kv3.1-Kv3.4). Kv3.4 is primarily expressed in brain and found in the cerebellum, hippocampus, brain stem and spinal cord. It has also been found in skeletal and arterial smooth muscle. Kv3.4 is a membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. Diseases associated with the gene for this protein (Kcnc4) include Spinocerebellar Ataxia 13 and Autosomal recessive ataxic cerebral palsy. Kv3.4 is also over-expressed in the early stages of Alzheimer's disease and has been implicated in chronic hypoxia and Parkinson's disease.
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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