

Product Datasheet

Anti-Kv3.3 Potassium Channel Antibody FL594 Conjugate



Overview

Catalog #	75-354-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N375/67
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	Fusion protein amino acids 628-728 (cytoplasmic C-terminus) of mouse Kv3.3b (accession number Q63959) produced recombinantly in E. Coli
Molecular Weight	80-100 kDa (depending on isoform)
Cite this Antibody	Antibodies Inc Cat# 75-354-FL594, RRID: AB_2940190

Details

Target Description	Potassium voltage-gated channel subfamily C member 3 or Kv3.3 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). Note that this protein has several splice variants and that antibody N375/67 recognizes both Kv3.3b and Kv3.3a. Kv3.3 is primarily expressed in brain. Kv3.3 is highly expressed in purkinje cells and deep cerebellar nuclei in the cerebellum. Kv3.3a is also expressed in brain, but not found in the cerebellum. Kv3.3 is a membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. Diseases associated with the gene for this protein (Kcnc3) include Spinocerebellar Ataxia 13 and Autosomal recessive ataxic cerebral palsy.
Specificity	Does not cross-react with Kv3.4 or Kv3.2
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 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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