

Product Datasheet

Anti-Kv1.4 K⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-010-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	K13/31
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 13-37 of rat Kv1.4 (NSHMPYGYAAQARARERERLAHSR; accession number P15385)
Molecular Weight	98 kDa
Cite this Antibody	Antibodies Inc Cat# 75-010-FL594, RRID: AB_2939102

Details

Target Description	Potassium voltage-gated channel subfamily A member 4 or Kv1.4 is encoded by the gene KCNA4. Kv1.4 is a potassium channel subunit is a member of the potassium channel, voltage-gated, shaker-related subfamily. Potassium channels form homotetrameric and heterotetrameric channels in the membrane with various other related proteins, including KCNA2, KCNA4, KCNA5, KCNA6, KCNA7. Kv1.4 is expressed in brain, and at lower levels in the testis, lung, kidney, colon, heart and adrenal tissue. In brain, Kv1.4 is located in the soma, dendrite and axon terminus of neurones in most regions of the brain.
Specificity	No cross-reactivity against Kv1.1, Kv1.2, Kv1.3, Kv1.5 and Kv1.6 expressed in transfected cells
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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