

Product Datasheet

Anti-Kv1.2 K⁺ Channel Antibody FL650 Conjugate

Overview

Catalog #	75-008-FL650
Conjugate	FL650 Ex: 655 nm, Em: 676 nm
Isotype	IgG2b
Clone Number	K14/16
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	Fusion protein amino acids 428-499(cytoplasmic C-terminus) of rat Kv1.2 (accession number P63142) produced recombinantly in E. Coli
Molecular Weight	80 kDa
Cite this Antibody	Antibodies Inc Cat# 75-008-FL650, RRID: AB_2939095

Details

Target Description	Kv1.2 K ⁺ channel (Potassium voltage-gated channel subfamily A member 2), which is encoded by KCNA2 gene, is part of the Potassium voltage-gated channel family. Kv1.2 K ⁺ channel switches between its open and closed conformation in response to the voltage difference across the membrane, which selectively allows the traffic of K ⁺ . Kv1.2 K ⁺ channel determines potassium ion permeability of excitable membranes according to their electrochemical gradient. Therefore, this protein has for function to regulate neurotransmitter release, neuronal excitability, smooth muscle contraction, heart muscle contraction or insulin secretion. Kv1.2 is recognized as a transmembrane/multi-pass membrane protein. Anti-Kv1.2 K ⁺ channel K14/16 is often used in IHC on human normal cerebral cortex.
Specificity	No cross-reactivity against Kv1.1, Kv1.3, Kv1.4, 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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