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Product Datasheet

Anti-Kv2.2 K+ Channel Antibody FL594 Conjugate

NeuroMab KO Validated

Overview

Catalog #	75-015-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2a
Clone Number	K37/89
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, Rabbit, and Rat
Immunogen	Fusion protein amino acids 1-61 of rat Kv2.2 (accession number Q63099) produced recombinantly in E. Coli
Molecular Weight	125 kDa
Cite this Antibody	Antibodies Inc Cat# 75-015-FL594, RRID: AB_2939122

Details

Target Description	Voltage-gated K+ channels are important determinants of neuronal membrane excitability (Pongs, 1999). Moreover, differences in K+ channel expression patterns and densities contribute to the variations in action potential waveforms and repetitive firing patterns evident in different neuronal cell types. The delayed rectifier-type (IK)channels (Kv1.5, Kv2.1, and Kv2.2) are expressed on all neuronal somata and proximal dendrites and are also found in a wide variety of non-neuronal cells types including pancreatic islets, alveolar cells and cardiac myocytes (Hwang et al., 1993; Yan et al., 2004; Michaelevski et al., 2003). Kv2.1 and Kv2.2 form distinct populations of K+ channels and these subunits are thought to be primarily responsible for IK in superior cervical ganglion cells (Blaine and Ribera, 1998; Burger and Ribera, 1996).
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 on cells overexpressing target protein and confirmed to give the expected staining pattern.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.

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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.