

Product Datasheet

Anti-TRAAK Potassium Channel Antibody FL594 Conjugate



Overview

Catalog #	75-433-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2a
Clone Number	N445/27
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	Mouse and Rat
Immunogen	Fusion protein amino acids 256-398 (cytoplasmic C-terminus) of mouse TRAAK (accession number O88454) produced recombinantly in E. Coli
Molecular Weight	43 kDa
Cite this Antibody	Antibodies Inc Cat# 75-433-FL594, RRID: AB_2940442

Details

Target Description	Potassium two pore domain channel subfamily K member 4 is encoded by the gene KCNK4. KCNK4 is a member of the two pore domain potassium channel (TC 1.A.1.8) family. KCNK4 homodimerizes and functions as an outwardly rectifying channel. KCNK4 is regulated by polyunsaturated fatty acids, temperature, and mechanical deformation of the lipid membrane. KCNK4 is expressed in the brain, spinal cord, and eye. Diseases associated with KCNK4 include Facial Dysmorphism, Hypertrichosis, Epilepsy, Intellectual/Developmental Delay, and Gingival Overgrowth Syndrome.
Specificity	Does not cross-react with TREK1/KCNK2
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 $\leq -20^{\circ}\text{C}$ 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.

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