

Product Datasheet

Anti-Kv4.2 Potassium Channel Antibody FL490 Conjugate



Overview

Catalog #	75-361-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	L28/4
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 471-630 (cytoplasmic C-terminus) of rat Kv4.2 (accession number Q63881) produced recombinantly in E. Coli
Molecular Weight	70 kDa
Cite this Antibody	Antibodies Inc Cat# 75-361-FL490, RRID: AB_2940208

Details

Target Description	Potassium voltage-gated channel subfamily D member 2 or Kv4.2 potassium channel subunit is encoded by the gene KCND2. Kv4.2 is an alpha subunit of the voltage-gated potassium channel (Shal) family and mediates transmembrane potassium transport in excitable membranes. Kv4.2 is an integral membrane protein that combines to form tetramers. Kv4.2 is detected in the heart and brain. In brain it is found at the cell junction, synapse, postsynaptic cell membrane. Diseases associated with this gene include Cycloplegia and early myoclonic encephalopathy.
Specificity	Does not cross-react with Kv4.3 (based on KO validation results)
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.

Note: For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, viewable on our website.