

Product Datasheet

Anti-Kv1.3 K⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-009-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	L23/27
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	Human, Mouse, and Rat
Immunogen	Synthetic peptide amino acids 485-506 (GGMNHSAFPQTPFKTGNSTATC, cytoplasmic C-terminus) of rat Kv1.3 (accession number P15384)
Molecular Weight	70 kDa
Cite this Antibody	Antibodies Inc Cat# 75-009-FL490, RRID: AB_2939096

Details

Target Description	<p>Kv1.3 K⁺ channel (also known KCNA3) is a member of the potassium channel, voltage-gated, shaker-related subfamily. This protein, encoded by the KCNA3 gene in human, is an efficient channel blocker. Kv1.3 K⁺ channel includes a shaker-type repeat in the fourth segment of a six membrane-spanning domains. Kv1.3 K⁺ channel plays a role in the repolarization of nerve cells after an action potential. It is also widely expressed on T and B lymphocytes' membranes (including inner mitochondrial membrane) and has an important function in T-cell activation, especially in the regulation of chronically activated effector memory T-cell immune responses (Chiang et al., 2017). It has been demonstrated that effector memory T-cells highly expressing Kv1.3 K⁺ channel are predominantly present in patient with Multiple Sclerosis lesion and children with type-1 diabetes mellitus (Beeton et al., 2006).</p>
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 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.

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