

Product Datasheet

Anti-Pan-Kvbeta K+ Channel Antibody FL490 Conjugate



Overview

Catalog #	75-106-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2a
Clone Number	K40/17
Size	200 μ L
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 1-401 (full-length) of rat Kv1 (accession number P63144) produced recombinantly in E. Coli
Molecular Weight	30-45 kDa
Cite this Antibody	Antibodies Inc Cat# 75-106-FL490, RRID: AB_2939396

Details

Target Description	The β subunits of voltage-gated potassium channels are members of the potassium channel, voltage-gated, shaker-related subfamily. Kv β s are cytoplasmic subunits that modulate the characteristics of the membrane spanning, channel-forming alpha-subunits. Beta subunits can promote the closure of channels or enhance channel activity depending on other channel proteins. There are three β subunits (Kv β 1, Kv β 2, Kv β 3) which are coded by three different genes. Additionally, there is alternative splicing of these three genes, further diversifying the functions and tissue expression of the family.
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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