

## Product Datasheet

## Anti-Pan-KChIP K+ Channel Antibody FL490 Conjugate



## Overview

<b>Catalog #</b>	75-006-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	K55/82
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1-216 (full length) of rat KChIP1b (accession number Q8R426) produced recombinantly in E. Coli
<b>Molecular Weight</b>	33 kDa (KChIP2), 25 kDa (KChIP3/4), 22 kDa (KChIP1)
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-006-FL490, RRID: AB_2939084

## Details

<b>Target Description</b>	The Kv channel-interacting proteins (KChIP1, kChIp2, kChIp3, and kChIp4) are members of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the recoverin or neuronal calcium sensor (NCS) family branch of the EF-hand superfamily. They serve as auxiliary channel subunits and interact with Kv4 alpha subunits to form native Kv4 channel complexes. KChIP subunits regulate Kv4 channels through various mechanisms including altering: channel density, inactivation kinetics, rate of recovery from inactivation, and cell surface delivery.
<b>Specificity</b>	No cross-reactivity reported
<b>Purification Method</b>	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.
<b>Quality Control Tests</b>	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**

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