

Product Datasheet

Anti-KChIP1 K+ Channel Antibody FL490 Conjugate



Overview

Catalog #	75-003-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	K55/7
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, Non-Human Primate, Rat, and Tree Shrew
Immunogen	Fusion protein amino acids 1-216 (full length) of rat KChIP1b (accession number Q8R426) produced recombinantly in E. Coli
Molecular Weight	30 kDa
Cite this Antibody	Antibodies Inc Cat# 75-003-FL490, RRID: AB_2939072

Details

Target Description	Kv channel-interacting protein 1, Potassium Voltage-Gated Channel Interacting Protein 1 or Kchip1 is a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin or neuronal calcium sensor (NCS) family branch of the EF-hand superfamily. Kchip1 associates with Kv4 alpha subunits to form native Kv4 channel complexes. Kchip1 is expressed in the brain and detected in the hippocampus and the dentate gyrus. Diseases associated with KCNIP1 include diastolic hypertension, attention deficit-hyperactivity disorder.
Specificity	No cross-reactivity against rat KChIPs 2,3
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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