

Product Datasheet

Anti-Kv1.1 K⁺ Channel (External) Antibody FL490 Conjugate

Overview

Catalog #	75-105-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2b
Clone Number	K36/15
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	Mouse and Rat
Immunogen	Synthetic peptide amino acids 191-208 (ELKDDKDFGTIHRIDNTC, extracellular domain) of rat Kv1.1 (accession number P10499)
Molecular Weight	56 kDa (could be 65-85 kDa depending on glycosylation)
Cite this Antibody	Antibodies Inc Cat# 75-105-FL490, RRID: AB_2939392

Details

Target Description	Potassium Channel Kv1.1 or Kcna1 is a member of the Shaker potassium channel family. Kv1.1 is expressed in the brain, CNS and in the kidney. Potassium channels form homotetrameric and heterotetrameric channels in the membrane with various other related proteins, including KCNA2, KCNA4, KCNA5, KCNA6, KCNA7. Kv1.1 is involved with the regulation of cellular functions and the control of neuronal excitability. Mutations in Kv1.1 are associated with Episodic ataxia type 1 and epilepsy.
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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