

## Product Datasheet

## Anti-Kvbeta1.2 K+ Channel Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-019-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	K47/42
<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>	Synthetic peptide amino acids 9-28 (ADIPSPKLGPKSSESALKC, unique Nterminus) of human Kv1.2 (accession number NP_003462)
<b>Molecular Weight</b>	65 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-019-FL550, RRID: AB_2939137

## Details

<b>Target Description</b>	Voltage-gated potassium channel subunit beta-1 or Kvβ1.1 is encoded by the gene KCNAB1. Kvβ1.1 is a member of the potassium channel, voltage-gated, shaker-related subfamily. Alternative splicing of KCNAB1 allows for three distinct proteins to be made, Kvβ1.1, Kvβ1.2, and Kvβ1.3. Each of these has a unique N terminus. Kvβ1.1 is a cytoplasmic subunit that modulates the characteristics of the membrane spanning, channel-forming alpha-subunits. Beta subunits can promote the closure of channels or enhance channel activity depending on the channel members. Kvβ1 is predominantly expressed in brain and found in hippocampus, cerebral cortex, caudate putamen, colliculus and cerebellum. Diseases associated with this gene include Episodic Ataxia, Type 1 and Familial Temporal Lobe Epilepsy, 3
<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.

**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.

**Our Guarantee**

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As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

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