

## Product Datasheet

## Anti-Kvbeta1.1 K+ Channel Antibody FL650 Conjugate



## Overview

<b>Catalog #</b>	75-018-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG2b
<b>Clone Number</b>	K9/40
<b>Size</b>	200 $\mu$ L
<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, Non-Human Primate, and Rat
<b>Immunogen</b>	Synthetic peptide amino acids 7-28 (unique N-terminus) of rat Kv1.1 (TEHNLKSRNGEDRLLSKQSST; accession number NP_058999)
<b>Molecular Weight</b>	44 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-018-FL650, RRID: AB_2939135

## Details

<b>Target Description</b>	Voltage-gated potassium channel subunit beta-1 or Kv $\beta$ 1.1 is encoded by the gene KCNAB1. Kv $\beta$ 1.1 is a member of the potassium channel, voltage-gated, shaker-related subfamily. Alternative splicing of KCNAB1 allows for three distinct proteins to be made, Kv $\beta$ 1.1, Kv $\beta$ 1.2, and Kv $\beta$ 1.3. Each of these has a unique N terminus. Kv $\beta$ 1.1 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. Kv $\beta$ 1 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>	Does not cross-react with Kv&beta;1.2, Kv&beta;1.3, Kv&beta;2
<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 IHC on either rat or mouse brain and confirmed to give the expected staining pattern.

**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**

---

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.

**Note:** For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, viewable on our website.