

## Product Datasheet

## Anti-Kvbeta2 K+ Channel Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-021-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	K17/70
<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>	Finch, Human, Mouse, Non-Human Primate, Rat, and Xenopus
<b>Immunogen</b>	Fusion protein amino acids 1-367 (full length) of rat Kv2 (accession number NP_034728) produced recombinantly in E. Coli
<b>Molecular Weight</b>	38 kDa (major band), 41 kDa (minor band)
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-021-FL550, RRID: AB_2939145

## Details

<b>Target Description</b>	Voltage-gated potassium channel subunit beta-2 or Kv $\beta$ 2 is encoded by the gene KCNAB2. Kv $\beta$ 2 is a member of the potassium channel, voltage-gated, shaker-related subfamily. Kv $\beta$ 2 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 other channel proteins. Kv $\beta$ 2 is expressed in brain, in the cerebellum and in the juxtaparanodal region of nodes of Ranvier. Kv $\beta$ 2 expression is also detected in lung, heart and kidney. Diseases associated with KCNAB2 include Chromosome 1P36 Deletion Syndrome and Juvenile Amyotrophic Lateral Sclerosis 16,
<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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