

## Product Datasheet

Anti-Kv2.2 K<sup>+</sup> Channel Antibody FL650 Conjugate

## Overview

<b>Catalog #</b>	75-015-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	K37/89
<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, Rabbit, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1-61 of rat Kv2.2 (accession number Q63099) produced recombinantly in E. Coli
<b>Molecular Weight</b>	125 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-015-FL650, RRID: AB_2939123

## Details

<b>Target Description</b>	Voltage-gated K <sup>+</sup> channels are important determinants of neuronal membrane excitability (Pongs, 1999). Moreover, differences in K <sup>+</sup> channel expression patterns and densities contribute to the variations in action potential waveforms and repetitive firing patterns evident in different neuronal cell types. The delayed rectifier-type (IK) channels (Kv1.5, Kv2.1, and Kv2.2) are expressed on all neuronal somata and proximal dendrites and are also found in a wide variety of non-neuronal cells types including pancreatic islets, alveolar cells and cardiac myocytes (Hwang et al., 1993; Yan et al., 2004; Michaelievski et al., 2003). Kv2.1 and Kv2.2 form distinct populations of K <sup>+</sup> channels and these subunits are thought to be primarily responsible for IK in superior cervical ganglion cells (Blaine and Ribera, 1998; Burger and Ribera, 1996).
<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 on cells overexpressing target protein 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**

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