

## Product Datasheet

Anti-Kv1.4 K<sup>+</sup> Channel Antibody FL650 Conjugate

## Overview

<b>Catalog #</b>	75-010-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	K13/31
<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 13-37 of rat Kv1.4 (NSHMPYGYAAQARARERERLAHSR; accession number P15385)
<b>Molecular Weight</b>	98 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-010-FL650, RRID: AB_2939103

## Details

<b>Target Description</b>	Potassium voltage-gated channel subfamily A member 4 or Kv1.4 is encoded by the gene KCNA4. Kv1.4 is a potassium channel subunit is a member of the potassium channel, voltage-gated, shaker-related subfamily. Potassium channels form homotetrameric and heterotetrameric channels in the membrane with various other related proteins, including KCNA2, KCNA4, KCNA5, KCNA6, KCNA7. Kv1.4 is expressed in brain, and at lower levels in the testis, lung, kidney, colon, heart and adrenal tissue. In brain, Kv1.4 is located in the soma, dendrite and axon terminus of neurones in most regions of the brain.
<b>Specificity</b>	No cross-reactivity against Kv1.1, Kv1.2, Kv1.3, Kv1.5 and Kv1.6 expressed in transfected cells
<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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