

## Product Datasheet

## Anti-Kv1.2 Potassium Channel Subunit Antibody FL550 Conjugate

NeuroMab



KO Validated

## Overview

<b>Catalog #</b>	75-314-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	L76/36
<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>	Fusion protein amino acids 428-499 (QYLQVTSCPkipSSpDLKkRSASTISKSDYMEIQEGVNNSN EDFREENLKTANCTLANtNYVNITKMLTDV, cytoplasmic C-terminus) of human Kv1.2 (accession number P16389) produced recombinantly in E. Coli
<b>Molecular Weight</b>	80 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-314-FL550, RRID: AB_2940097

## Details

<b>Target Description</b>	Potassium voltage-gated channel subfamily A member 2 (also known as Potassium Voltage-Gated Channel A Member 2, Shaker-Related Subfamily, Member 2 or Voltage-Gated Potassium Channel Protein Kv1.2, or KCNA2) is a member of the Kv family of potassium channels. Kv1.2 contains six membrane spanning domains and belongs to the delayer rectifier class of potassium channels. Kv2.1 mediates the voltage dependent potassium ion permeability of excitable membranes. Kv1.2 binds PDZ domains of DLG1, DLG2 and DLG4. Kv1.2 is found primarily in the brain (at the axon initial segment, axon preterminals and juxtapanode domains), central nervous system, but also in the cardiovascular system. Kv2.1 has been implicated in epileptic encephalopathy, early infantile, and episodic ataxia, type 1.
<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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