

## Product Datasheet

Anti-Kv1.2 K<sup>+</sup> Channel Antibody FL490 Conjugate

## Overview

|                           |   |
|---------------------------|---|
| <b>Catalog #</b>          | 75-008-FL490  |
| <b>Conjugate</b>          | FL490 Ex: 491 nm, Em: 515 nm  |
| <b>Isotype</b>            | IgG2b   |
| <b>Clone Number</b>       | K14/16  |
| <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(cytoplasmic C-terminus) of rat Kv1.2 (accession number P63142) produced recombinantly in E. Coli |
| <b>Molecular Weight</b>   | 80 kDa  |
| <b>Cite this Antibody</b> | Antibodies Inc Cat# 75-008-FL490, RRID: AB_2939092  |

## Details

|                            |  |
|----------------------------|--|
| <b>Target Description</b>  | Kv1.2 K <sup>+</sup> channel (Potassium voltage-gated channel subfamily A member 2), which is encoded by KCNA2 gene, is part of the Potassium voltage-gated channel family. Kv1.2 K <sup>+</sup> channel switches between its open and closed conformation in response to the voltage difference across the membrane, which selectively allows the traffic of K <sup>+</sup> . Kv1.2 K <sup>+</sup> channel determines potassium ion permeability of excitable membranes according to their electrochemical gradient. Therefore, this protein has for function to regulate neurotransmitter release, neuronal excitability, smooth muscle contraction, heart muscle contraction or insulin secretion. Kv1.2 is recognized as a transmembrane/multi-pass membrane protein. Anti-Kv1.2 K <sup>+</sup> channel K14/16 is often used in IHC on human normal cerebral cortex. |
| <b>Specificity</b>         | No cross-reactivity against Kv1.1, Kv1.3, Kv1.4, 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.   |

**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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