

Product Datasheet

Anti-KCC2 Antibody FL490 Conjugate



Overview

Catalog #	75-013-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2a
Clone Number	N1/12
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, Rat, and Zebrafish
Immunogen	Fusion protein amino acids 932-1043 (intracellular carboxyl terminus) of rat KCC2 (accession number Q63633) produced recombinantly in E. Coli
Molecular Weight	140 kDa
Cite this Antibody	Antibodies Inc Cat# 75-013-FL490, RRID: AB_2939112

Details

Target Description	KCC2 or Potassium-chloride transporter member 5 is a member of the chloride potassium symporter family. KCC2 is a neuron-specific membrane protein encoded by the SLC12A5 gene in humans. The protein colocalizes with GABAA receptors and has for function to mediate electroneutral potassium-chloride cotransport in mature neurons to maintain the Cl ⁻ homeostasis. KCC2 is widely expressed throughout the central nervous system, especially the hippocampus, hypothalamus, brainstem, and motoneurons of the ventral spinal cord. KCC2 is a neuronal marker that is often used to measure post-synaptic inhibition through GABAA receptors.
Specificity	No cross-reactivity reported
Purification Method	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.

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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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