

Product Datasheet

Anti-GluN1/NR1 Glutamate Receptor Antibody FL490 Conjugate



Overview

Catalog #	75-272-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N308/48
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, and Rat
Immunogen	Fusion protein amino acids 42-361 (extracellular N-terminus) of rat NR1 (accession number P35439) produced recombinantly in E. Coli
Molecular Weight	105 kDa
Cite this Antibody	Antibodies Inc Cat# 75-272-FL490, RRID: AB_2939976

Details

Target Description	Glutamate receptor 1, NMDA 1, or GluN1/NR1 also known as subunit 1 of the N-methyl-D-aspartate (NMDA) receptor. It is a member of the glutamate receptor channel superfamily and is a heteromeric glutamate-gated calcium ion channel. GluN1 is essential for synaptic function in the brain. GluN1 is expressed throughout the brain in cerebellum, thalamus, olfactory bulb and cortex in the membrane at postsynaptic density. GluN1 plays a key role in synaptogenesis, synaptic plasticity, memory acquisition and learning. Mutations in the GluN1 gene are associated with intellectual disability and cortical visual impairment and movement disorders.
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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