

Product Datasheet

Anti-GluN2A/NR2A Antibody FL550 Conjugate



Overview

Catalog #	75-288-FL550
Conjugate	FL550 Ex: 550 nm, Em: 575 nm
Isotype	IgG2a
Clone Number	N327/95
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, Rabbit, and Rat
Immunogen	Fusion protein amino acids 75-325 (extracellular N-terminus) of rat NR2A (accession number Q00959) produced recombinantly in E. Coli
Molecular Weight	170 kDa
Cite this Antibody	Antibodies Inc Cat# 75-288-FL550, RRID: AB_2940029

Details

Target Description	Glutamate receptor NMDA2A or GluN2A/NR2A glutamate receptor is a member of the glutamate-gated ion channel family. NR2A is a subunit of the ligand-gated ion channel with high calcium permeability and voltage-dependent sensitivity to magnesium. NR2A is expressed throughout the brain, including striatum, forbrain, cerebellum (at protein level) brain cortex, piriform cortex, hippocampus, caudate-putamen, dentate gyrus and granule cell layer. It is found at the postsynaptic cell membrane, dendritic spine, synapse, and cytoplasmic vesicle membrane. A variety of neurological diseases, including epilepsy, intellectual disability, autism spectrum disorders, developmental delay, and schizophrenia are associated with mutations in the NR2A gene.
Specificity	Does not cross-react with GluN2B/NR2B
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.

Our Guarantee

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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