

## Product Datasheet

## Anti-GluN2A/NR2A Antibody FL650 Conjugate



## Overview

<b>Catalog #</b>	75-288-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N327/95
<b>Size</b>	200 $\mu$ L
<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, Rabbit, and Rat
<b>Immunogen</b>	Fusion protein amino acids 75-325 (extracellular N-terminus) of rat NR2A (accession number Q00959) produced recombinantly in E. Coli
<b>Molecular Weight</b>	170 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-288-FL650, RRID: AB_2940031

## Details

<b>Target Description</b>	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.
<b>Specificity</b>	Does not cross-react with GluN2B/NR2B
<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.
<b>Quality Control Tests</b>	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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