NR2A Antibody (R31748)

Catalog No.	Formulation	Size
R31748	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	2903
Applications	Western blot: 0.5-1ug/ml
Limitations	This NR2A antibody is available for research use only.



Western blot testing of NR2A antibody and Lane 1: rat brain; 2: mouse brain lysate. Predicted/observed size ~165KD

Description

N-methyl-D-aspartate receptor channel, subtype 2A (NMDAR2A or NR2A) is a member of the glutamate-gated ion channel protein family. It is an N-methyl-D-aspartate (NMDA) receptor subunit. NMDA receptors are both ligand-gated and voltage-dependent, and are involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. These receptors are permeable to calcium ions, and activation results in a calcium influx into post-synaptic cells, which results in the activation of several signaling cascades. Disruption of NR2A is associated with focal epilepsy and speech disorder with or without mental retardation. Alternative splicing results in multiple transcript variants.

Application Notes

Variations in secondary/substrate sensitivities and test protocols may require the NR2A antibody to be titrated for optimal performance.

Immunogen

Human partial recombinant protein (AA 958-1300) was used as the immunogen for this NR2A antibody.

Storage

The lyophilized NR2A antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freeze/thaws.

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