Product Information



NMDA Receptor NR2A Subunit Polyclonal Antibody

Item No. 10608

Contents:	This vial contains 10 µg affinity-purified antibody lyophilized from 5 mM ammonium bicarbonate.
	The antibody should be reconstituted in 50 µl phosphate buffered saline (PBS: 137 mM NaCl,
	7.5 mM Na ₂ HPO ₄ , 2.7 mM KCl, 1.5 mM KH ₂ PO ₄ , pH 7.4) before use.
Antigen:	Fusion protein from the C-terminus of the NR2A subunit of rat NMDA receptor
Host:	Rabbit
Cross Reactivity:	(+) Human, mouse, and rat NMDA
Stability:	≥1 year at -20°C
Application:	Immunohistochemistry (IHC), immunoprecipitation (IP), and western blot (WB); the recommended
	starting dilution for IHC is 1:1,000; 3 µl per 200 µg lysate for IP; and 1:1,000 for WB.

The ion channels activated by glutamate are typically divided into two classes. Glutamate receptors that are activated by kainate and α -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as kainate/AMPA receptors (K/AMPAR). Those that are sensitive to N-methyl-Daspartate (NMDA) are designated NMDA receptors (NMDAR). The NMDAR plays an essential role in memory, neuronal development and it has also been implicated in several disorders of the central nervous system including Alzheimer's, epilepsy and ischemic neuronal cell death. The NMDA receptor is also one of the principal molecular targets for alcohol in the CNS. The NMDAR is also potentiated by protein phosphorylation. The rat NMDAR1 (NR1) was the first subunit of the NMDAR to be cloned. The NR1 protein can form NMDA activated channels when expressed in Xenopus oocytes but the currents in such channels are much smaller than those seen in situ. Channels with more physiological characteristics are produced when the NR1 subunit is combined with one or more of the NMDAR2 (NR2 A-D) subunits.

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10608

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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