Product Datasheet

NMDAR1 Antibody

Catalog No: CY6798 Reactivity: Human Mouse Rat

Isotype: Rabbit IgG Applications: WB

www.abways.com

Information

UniProt ID: Q05586

All Names: Glutamate receptor ionotropic, NMDA 1; GluN1; Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; NMD-R1; GRIN1; NMDAR1

Form: Liquid

Storage instructions: Store at +4˚C short term. Store at -20˚C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

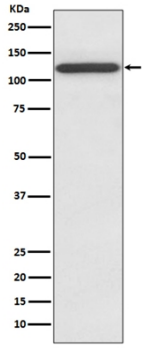
Molecular Wt.: 120 kDa

Application

WB 1:500~1:2000

Background

N-methyl-D-aspartate receptor (NMDAR) forms a heterodimer of at least one NR1 and one NR2A-D subunit. Multiple receptor isoforms with distinct brain distributions and functional properties arise by selective splicing of the NR1 transcripts and differential expression of the NR2 subunits. The phosphorylation of NR1 by PKC decreases its affinity for calmodulin, thus preventing the inhibitory effect of calmodulin on NMDAR. The phosphorylation of NR1 by PKA probably counteracts the inhibitory effect of calcineurin on the receptor. NMDAR mediates long-term potentiation and slow postsynaptic excitation, which play central roles in learning, neurodevelopment, and neuroplasticity.



Western blot analysis of NMDAR1 expression in mouse brain lysate.