

#21133

NMDAR1 (Ab-896) Antibody

Catalog: #21133-1 50µl **Orders:** order@signalwayantibody.com
#21133-2 100µl **Support:** tech@signalwayantibody.com
Storage: Store at -20°C/1 year **Web:** www.signalwayantibody.com



Application	Species Reactivity	Source	Molecular Wt.
WB	Human Mouse	Rabbit Polyclonal Ab	120KD

Description: Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

Specificity: The antibody detects endogenous level of total NMDAR1 protein.

Immunogen: Peptide sequence around aa.894~898 (R-R-S-S-K) derived from Human NMDAR1.

Formulation: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

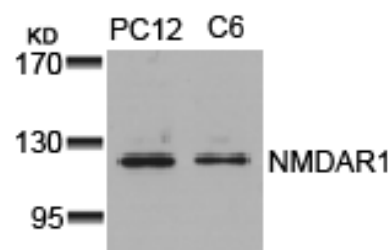
Synonyms: GLURZ1 GRIN1 NMD-R1 NMDZ1 NMZ1

Accession No.: Swiss-Prot#: Q05586 NCBI Gene#: 2902
NCBI Protein#: NP_000823.4

Background: NMDA receptors are members of the ionotropic class of glutamate receptors, which also includes Kainate and AMPA receptors. NMDA receptors consist of NR1 subunits combined with one or more NR2 (A-D) or NR3 (A-B) subunits. The ligand-gated channel is permeable to cations including Ca²⁺, and at resting membrane potentials NMDA receptors are inactive due to a voltage-dependent blockade of the channel pore by Mg²⁺. NMDA receptor activation, which requires binding of glutamate and glycine, leads to an influx of Ca²⁺ into the postsynaptic region where it activates several signaling cascades, including pathways leading to the induction of long-term potentiation (LTP) and depression (LTD). NMDA receptors have a critical role in excitatory synaptic transmission and plasticity in the CNS. They govern a range of physiological conditions including neurological disorders caused by excitotoxic neuronal injury, psychiatric disorders and neuropathic pain syndromes.

Recommended Dilutions:

Western blotting 1:500~1:1000



Western blot analysis of extracts from PC12 and C6 cells using NMDAR1 (Ab-896) Antibody #21133.

References:

Tyszkiewicz JP, et al. J Physiol. 2004 Feb 1; 554(Pt 3): 765-777

Citation:

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Related Pathway: Neuroscience, Receptors, Channel

Note: For western blotting, incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.