

**Anti-NMDAR1 (pS890) Antibody**  
**Rabbit polyclonal antibody to NMDAR1 (pS890)**  
**Catalog # AP61377****Specification**

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**Anti-NMDAR1 (pS890) Antibody - Product Information**

Application	WB, IH, IF
Primary Accession	<a href="#">Q05586</a>
Other Accession	<a href="#">P35438</a>
Reactivity	Human, Mouse, Drosophila
Host	Rabbit
Clonality	Polyclonal

**Anti-NMDAR1 (pS890) Antibody - Additional Information****Gene ID** 2902**Other Names**

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

**Target/Specificity**

Recognizes endogenous levels of NMDAR1 (pS890) protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/100 - 1/500)

IH~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/100 - 1/500)

IF~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/100 - 1/500)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-NMDAR1 (pS890) Antibody - Protein Information****Name** GRIN1**Synonyms** NMDAR1**Function**

Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:<a href="http://www.uniprot.org/citations/7685113"

target="\_blank">7685113</a>, PubMed:<a href="http://www.uniprot.org/citations/28126851" target="\_blank">28126851</a>, PubMed:<a href="http://www.uniprot.org/citations/26919761" target="\_blank">26919761</a>, PubMed:<a href="http://www.uniprot.org/citations/26875626" target="\_blank">26875626</a>, PubMed:<a href="http://www.uniprot.org/citations/28105280" target="\_blank">28105280</a>). Sensitivity to glutamate and channel kinetics depend on the subunit composition (PubMed:<a href="http://www.uniprot.org/citations/26919761" target="\_blank">26919761</a>).

### Cellular Location

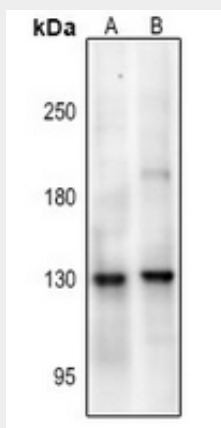
Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane. Postsynaptic density. Note=Enriched in postsynaptic plasma membrane and postsynaptic densities.

### Anti-NMDAR1 (pS890) Antibody - Protocols

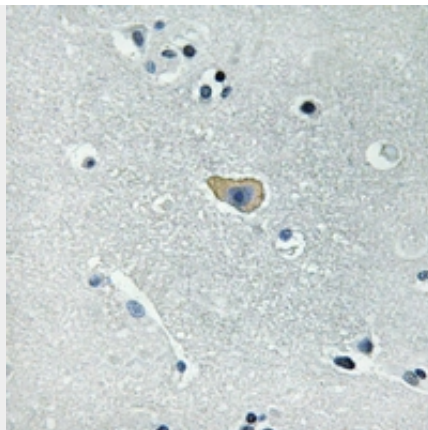
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-NMDAR1 (pS890) Antibody - Images



Western blot analysis of NMDAR1 (pS890) expression in A549 (A), U87MG (B) whole cell lysates.



Immunohistochemical analysis of NMDAR1 (pS890) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NMDAR1 (pS890) staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-NMDAR1 (pS890) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NMDAR1 (pS890). The exact sequence is proprietary.