

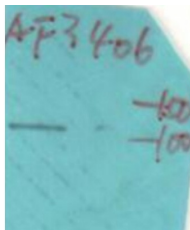
## Phospho-NMDAR1 (Ser890) Ab

Cat.#: AF3406  
Size: 100ul,200ul

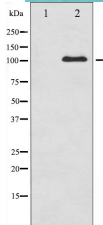
Concn.: 1mg/ml  
Source: Rabbit

Mol.Wt.: 105kDa  
Clonality: Polyclonal

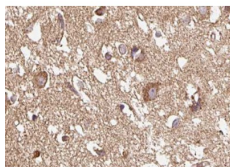
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application:                  | WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity:                   | Human,Mouse,Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purification:                 | The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.                                                                                                                                                                                                                                                                                                                                                   |
| Specificity:                  | Phospho-NMDAR1 (Ser890) Ab detects endogenous levels of NMDAR1 only when phosphorylated at Serine 890.                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen:                    | A synthesized peptide derived from human NMDAR1 around the phosphorylation site of Serine 890.                                                                                                                                                                                                                                                                                                                                                                                                      |
| Uniprot:                      | Q05586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Description:                  | The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. The gene consists of 21 exons and is alternatively spliced, producing transcript variants differing in the C-terminus. |
| Subcellular Location:         | Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Enriched in post-synaptic plasma membrane and post-synaptic densities.                                                                                                                                                                                                                                                                            |
| Similarity:                   | A hydrophobic region that gives rise to the prediction of a transmembrane span does not cross the membrane, but is part of a discontinuously helical region that dips into the membrane and is probably part of the pore and of the selectivity filter.Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR1/GRIN1 subfamily. [View classification]                                                                                                                                  |
| Storage Condition and Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                        |



Western blot analysis of Phospho-NMDAR1 (Ser890) Ab expression in A549 whole cell lysates. The lane on the right is treated with the antigen-specific peptide.



Western blot analysis of NMDAR1 phosphorylation expression in A549 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



AF3406 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF3406 staining A549 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary Ab was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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