## Phospho-NMDAR2B (Tyr1474) Ab

Cat.#: AF3425 Concn.: 1mg/ml Mol.Wt.: 165kDa Size: 100ul,200ul Source: Rabbit 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-NMDAR2B (Tyr1474) Ab detects endogenous levels

of NMDAR2B only when phosphorylated at Tyrosine 1474.

Immunogen: A synthesized peptide derived from human NMDAR2B

around the phosphorylation site of Tyrosine 1474.

Uniprot: Q13224

Description: N-methyl-D-aspartate (NMDA) receptors are a class of

ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory

and learning.

Subcellular Location: Cell membrane. Cell junction > synapse > postsynaptic cell

membrane.

Tissue Specificity: Primarily found in the fronto-parieto-temporal cortex and

hippocampus pyramidal cells, lower expression in the basal

ganglia.

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. NR2B/GRIN2B subfamily. [View

classification]

Storage Condition and

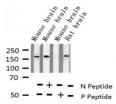
Buffer:

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20

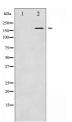
°C.Stable for 12 months from date of receipt.



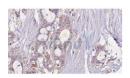
## Affinity Biosciences website:www.affbiotech.com order:order@affbiotech.com



Western blot analysis of Phospho-NMDAR2B (Tyr1474) expression in various lysates



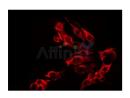
Western blot analysis of NMDAR2B phosphorylation expression in UV treated Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



AF3425 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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.



AF3425 at 1/100 staining human brain tissues 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  $44\,^{\circ}\mathrm{C}$ 



AF3425 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

<code>IMPORTANT:</code> 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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