

Anti-GluR1-Subunit (Ser845) Antibody

Our Anti-GluR1-Subunit (Ser845) rabbit polyclonal phosphospecific primary antibody from PhosphoSolut
Catalog # AN1417

Product Information

Application	WB, IHC
Primary Accession	P19490
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	101579

Additional Information

Gene ID	50592
Other Names	GLUR 1 antibody, GLUR A antibody, AMPA 1 antibody, AMPA selective glutamate receptor 1 antibody, AMPA-selective glutamate receptor 1 antibody, GluA1 antibody, GLUH1 antibody, GluR K1 antibody, GluR-1 antibody, GluR-A antibody, GluR-K1 antibody, GLUR1 antibody, GLURA antibody, GluRK1 antibody, Glutamate receptor 1 antibody, Glutamate receptor ionotropic AMPA 1 antibody, Glutamate receptor ionotropic antibody, Glutamate receptor, ionotropic, AMPA 1 antibody, Gria1 antibody, GRIA1_HUMAN antibody, HBGR1 antibody, MGC133252 antibody, OTTHUMP00000160643 antibody, OTTHUMP00000165781 antibody, THUMP00000224241 antibody, OTTHUMP00000224242 antibody, OTTHUMP00000224243 antibody
Target/Specificity	The ion channels activated by glutamate are typically divided into two classes. Those that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by α -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as AMPA receptors (AMPA). The AMPAR are comprised of four distinct glutamate receptor subunits designated (GluR1-4) and they play key roles in virtually all excitatory neurotransmission in the brain (Kein $\square$ hen et al., 1990; Hollmann and Heinemann, 1994). The GluR1 subunit is widely expressed throughout the nervous system. Phosphorylation of Ser-845 on GluR1 is thought to be mediated by PKA and phosphorylation of this site increases the conductance of the AMPAR (Roche et al., 1996; Banke et al., 2000). In addition, phosphorylation of this site has been linked to synaptic plasticity as well as learning and memory (Lee et al., 2003; Esteban et al., 2003).
Dilution	WB~~1:1000 IHC~~1:100~500
Format	Antigen Affinity Purified from Pooled Serum
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-GluR1-Subunit (Ser845) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

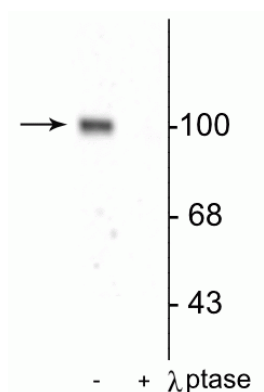
Shipping

Blue Ice

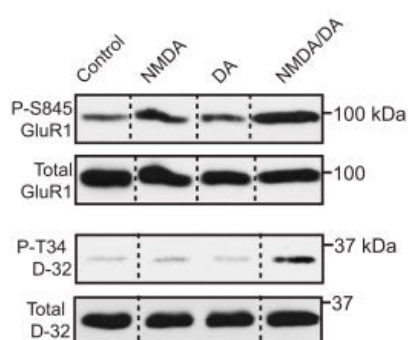
Background

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Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~100 kDa GluR1 protein phosphorylated at Ser845 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 min).



Effects of striatal slice treatment with NMDA (25 μM, 5 min), dopamine (DA, 10 μM, 15 min), or both on PKA-dependent phosphorylation of Ser845 GluR1 (top) and Thr34 DARPP-32 (bottom). Image from publication CC-BY-4.0. PMID: 35835216

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.