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anti-Glutamate Receptor 1 antibody (pSer845)

2 Images

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Publications



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Quantity:	150 μL
Target:	Glutamate Receptor 1 (GLUR1)
Binding Specificity:	pSer845
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutamate Receptor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser845 conjugated to KLH
Immunogen: Specificity:	
	conjugated to KLH The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with human, mouse and non-human primate based on the fact that these species have 100% homology with the amino acid sequence used as antigen. Specific for the ~100k GluR1 protein phosphorylated at Ser845 in Western blots of rat brain extracts. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide. Immunolabeling is completely eliminated by treatment

Product Details Purification: Antigen Affinity Purified from Pooled Serum **Target Details** Target: Glutamate Receptor 1 (GLUR1) **GRIA1 (GLUR1 Products)** Alternative Name Background: Affinity purified rabbit polyclonal antibody. Biological Significance: The ion channels activated by glutamate are typically divided into two classes. Those that are sensitive to N-methyl-Daspartate (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 (AMPAR). 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 (Keinänen et al., 1990; Hollmann and Heinemann, 1994). The GluR1 subunit is widely expressed throughout the nervous system. Phosphorylation of Ser845 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 arning and memory (Lee at al., 2003; Esteban at al., 2003). '100 kDa Molecular Weight: Gene ID: 50592 UniProt: P19490 Pathways: PI3K-Akt Signaling **Application Details**

Application Notes:	WB: 1:1000. IHC: 1:1000 (frozen sections).	
Restrictions:	For Research Use only	

Handling

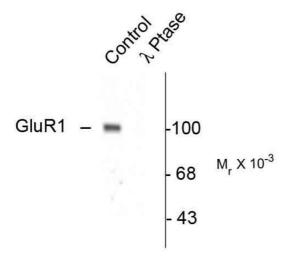
Format:	Liquid
Buffer:	100 μL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μg per ml BSA and 50 % glycerol.
Storage:	-20 °C

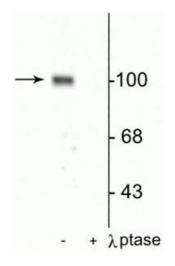
Product cited in:

Ikari, Okude, Sawada, Takahashi, Sugatani, Miwa: "Down-regulation of TRPM6-mediated magnesium influx by cyclosporin A." in: **Naunyn-Schmiedeberg's archives of pharmacology**, Vol. 377, Issue 4-6, pp. 333-43, (2008) (PubMed).

There are more publications referencing this product on: Product page

Images





Western Blotting

Image 1. Western blots of rat hippocampal lysate showing specific immunolabeling of the ~100k GluR1 protein phosphorylated at Ser845 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: (-Ptase). The blot is identical to the control except that it was incubated in (-Ptase (1200 units for 30 min) before being exposed to the GluR1 Ser845 antibody. The immunolabeling is completely eliminated by treatment with (-Ptase.

Western Blotting

Image 2. 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).