

## Rabbit Anti-phospho-GluR1 (Ser849)/Cy5 Conjugated antibody

SL8446R-Cy5

<b>Product Name</b>	Anti-phospho-GluR1 (Ser849)/Cy5
<b>Chinese Name</b>	Cy5 标记的磷酸化谷氨酸受体 1 抗体
<b>Alias</b>	GluR1 (phospho Ser849); GluR1 (phospho S849); p- GluR1(Ser849); p- GluR1(S849); GLUR 1; GLUR A; AMPA 1; AMPA selective glutamate receptor 1; GLUH 1; GLUH1; GluR K1; GluR-1; GluR-A; GluR-K1; GLUR1; GLURA ; GluRK1; Glutamate receptor 1; Glutamate receptor ionotropic AMPA 1; Gria 1; Gria1 ; Gria1; HBGR1; MGC133252.
<b>Product Type</b>	Phosphorylated anti
<b>Research Area</b>	Tumour Cell biology immunology Neurobiology Signal transduction Apoptosis transcriptional regulatory factor
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Cow,Horse,Sheep) IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	98kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthesised phosphopeptide derived from human GluR1 around the phosphorylation site of Ser849 [QQ(p-S)IN]
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	

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**background:**

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

**Function:**

Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

**Product Detail**

**Subunit:**

Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be formed by the dimerization of dimers. Interacts with DLG1 via its C-terminus. Interacts with SYNDIG1 and GRIA2. Interacts with LRFN. Interacts with HIP1 and RASGRF2. Found in a complex with GRIA2, GRIA3, GRIA4, CNIH2, CNIH3, CACNG2, CACNG3, CACNG4, CACNG5, CACNG7 and CACNG8. Interacts with CACNG5. Interacts with CNIH2 and CACNG2.

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, dendrit. Cell projection, dendritic spine. Note=Interaction with CACNG2, CNIH2 and CNIH3 promotes cell surface expression.

**Tissue Specificity:**

Widely expressed in brain.

**Post-translational modifications:**

Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-603 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-829 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis.

**Similarity:**

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily.

**Database links:**

[Entrez Gene: 2890](#) Human

[Entrez Gene: 14799](#) Mouse

[Entrez Gene: 50592](#) Rat

[Omim: 138248](#) Human

[SwissProt: P42261](#) Human

[SwissProt: P23818](#) Mouse

[SwissProt: P19490](#) Rat

[Unigene: 519693](#) Human

[Unigene: 4920](#) Mouse

[Unigene: 29971](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

NMDAR1 又称 GluR1 (Glutamate Receptor 1)近年实验研究发现, 许多 NMDAR 拮抗药均具有镇痛活性, 表明 NMDAR 在痛觉传递中具有重要作用, 这为新型镇痛药的研究开发提供了新的作用靶点。