



Rabbit Anti-phospho-GluR1 (Ser849) antibody

SL8446R

Product Name:	phospho-GluR1 (Ser849)
Chinese Name:	磷酸化谷氨酸受体1抗体
Alias:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	98kDa
Cellular localization:	cytoplasmicThe cell membraneExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human GluR1 around the phosphorylation site of Ser849:QQ(p-S)IN
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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:

Ionicotropic 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.

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.

SWISS:
P42261

Gene ID:
2890

Database links:

[Entrez Gene: 2890](#) Human

[Entrez Gene: 14799](#) Mouse

[Entrez Gene: 50592](#) Rat

[Omin: 138248](#) Human

[SwissProt: P42261](#) Human

[SwissProt: P23818](#) Mouse

[SwissProt: P19490](#) Rat

[Unigene: 519693](#) Human

[Unigene: 4920](#) Mouse

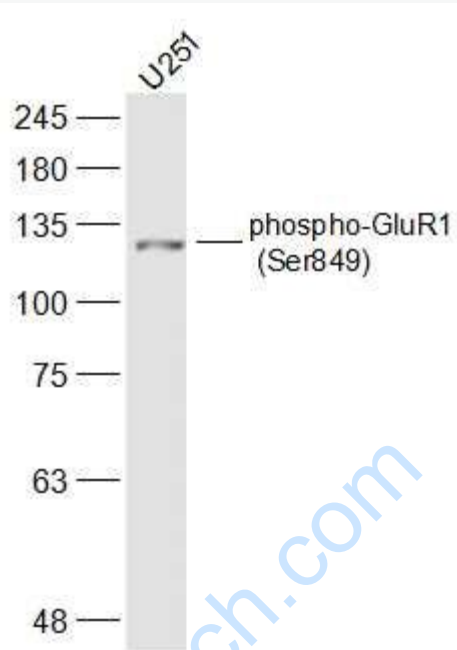
[Unigene: 29971](#) Rat

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。



Picture:

Sample:

Cerebrum (Mouse) Lysate at 40 ug

Cerebellum (Mouse) Lysate at 40 ug

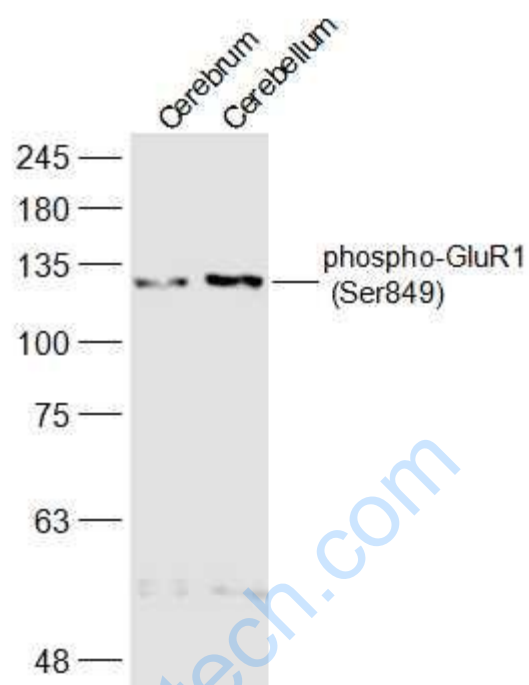
U251 (Human) Lysate at 30 ug

Primary: Anti-phospho-GluR1 (Ser849) (SL8446R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 98 kD

Observed band size: 128 kD



Sample:

Cerebrum (Mouse) Lysate at 40 ug

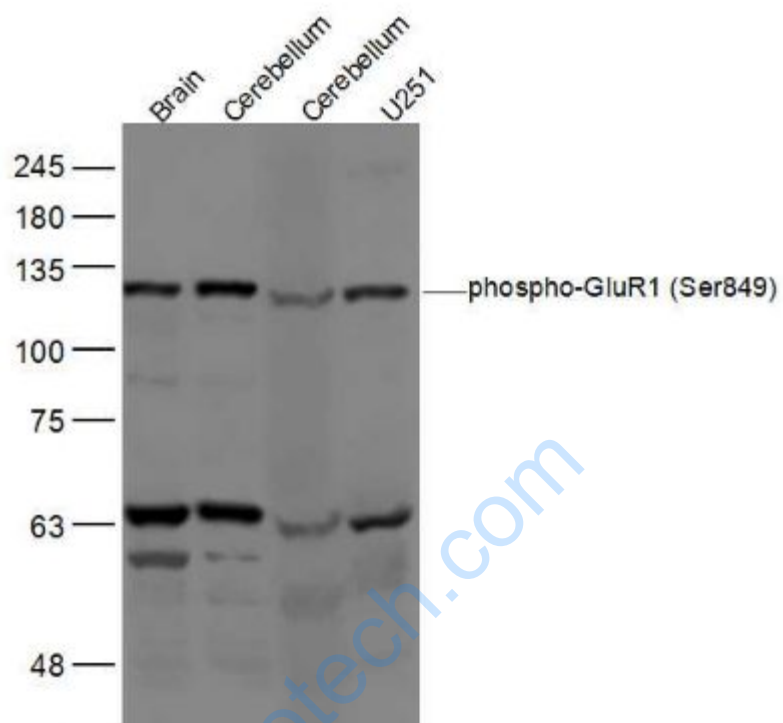
Cerebellum (Mouse) Lysate at 40 ug

Primary: Anti-phospho-GluR1 (Ser849) (SL8446R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 98 kD

Observed band size: 128 kD



Sample:

Brain (Mouse) Lysate at 40 ug

Cerebellum (Mouse) Lysate at 40 ug

Cerebellum (Rat) Lysate at 40 ug

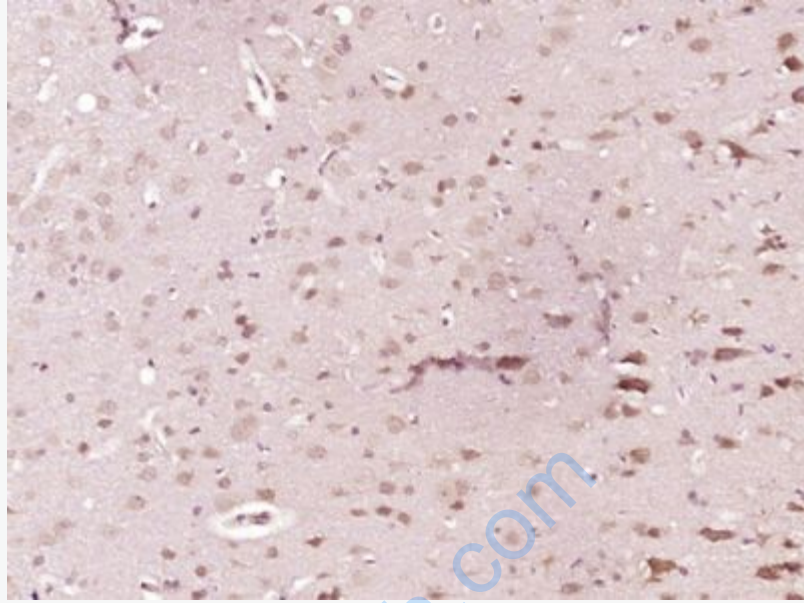
U251 (Human) Lysate at 30 ug

Primary: Anti- phospho-GluR1 (Ser849) (SL8446R) at 1/500 dilution

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Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-GluR1 (Ser849)) Polyclonal Antibody, Unconjugated (SL8446R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.