



## Rabbit Anti-GRID1 antibody

SL12095R

<b>Product Name:</b>	GRID1
<b>Chinese Name:</b>	谷氨酸受体δ1/GluR-δ1抗体
<b>Alias:</b>	GluR delta 1; GluR delta 1 subunit; GluR delta-1 subunit; Glutamate receptor delta 1 subunit; Glutamate receptor delta-1 subunit; Glutamate receptor ionotropic delta 1; GRID 1; Grid1; GRID1_HUMAN; KIAA1220.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	110kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GRID1:501-600/1009<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Glutamate receptors mediate most excitatory neurotransmissions in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are divided into two categories, namely NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-

specific ion channels. Kainate/AMPA receptors consist of seven structurally related subunits, designated GluR-1 to -7, and are primarily responsible for fast excitatory neurotransmissions carried out by glutamate. GluR-delta 1 (Glutamate receptor delta-1 subunit), also known as GRID1, is a multi-pass membrane protein that belongs to the kainate/AMPA receptor family and is expressed primarily in the brain. Localized to the cell junction and the postsynaptic cell membrane, GluR-delta 1 functions as a glutamate receptor that regulates synaptic transmissions in the central nervous system (CNS) and is thought to play an important role in synaptic plasticity. Defects in the gene encoding GluR-delta 1 are associated with schizophrenia, a chronic and severe brain disorder.

**Function:**

Receptor for glutamate. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists.

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein (By similarity). Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein (By similarity).

**Similarity:**

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRID1 subfamily.

**SWISS:**

Q9ULK0

**Gene ID:**

2894

**Database links:**

[Entrez Gene: 2894](#)Human

[Entrez Gene: 14803](#)Mouse

[GenBank: NP\\_060021.1](#)Human

[Omim: 610659](#)Human

[SwissProt: Q9ULK0](#)Human

[SwissProt: Q61627](#)Mouse

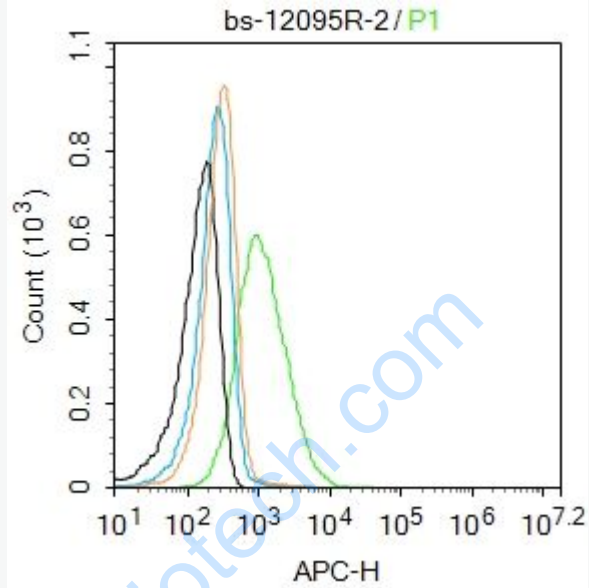
[Unigene: 530653](#)Human

[Unigene: 121569](#)Mouse

[Unigene: 413604](#)Mouse

**Important Note:**

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



**Picture:**

Blank control: HeLa.

Primary Antibody (green line): Rabbit Anti-GRID1 antibody (SL12095R)

Dilution: 2 $\mu$ g /10<sup>6</sup> cells;

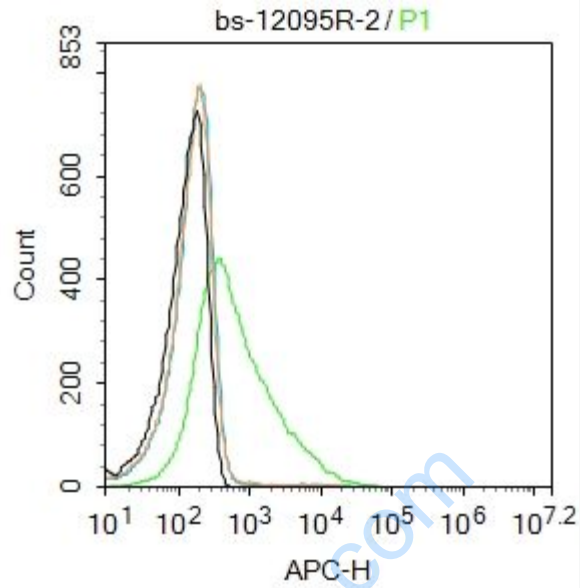
Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-APC

Dilution: 1 $\mu$ g /test.

**Protocol**

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: K562.

Primary Antibody (green line): Rabbit Anti-GRID1 antibody (SL12095R)

Dilution:  $2\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-APC

Dilution:  $1\mu\text{g} / \text{test}$ .

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.