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Rabbit Anti-GRID1 antibody

SL12095R

Product Name	GRID1
Chinese Name	谷氨酸受体 δ1/GluR-δ1 抗体
Alias	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.
Research Area	Neurobiology Channel protein The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, (predicted: Mouse, Rat, Chicken, Dog, Cow, Horse, Sheep,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	110kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GRID1: 501-600/1009 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

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

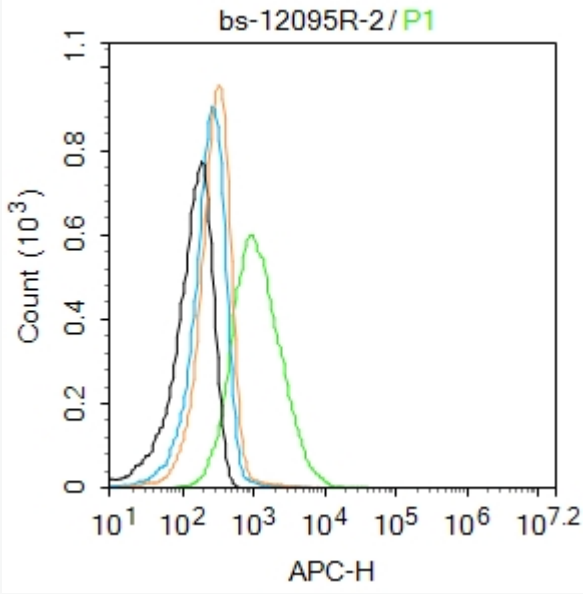
SwissProt: Q61627 Mouse

Unigene: 530653 Human

Unigene: 121569 Mouse

Unigene: 413604 Mouse

Product Picture



Blank control: Hela.

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

Dilution: 2µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

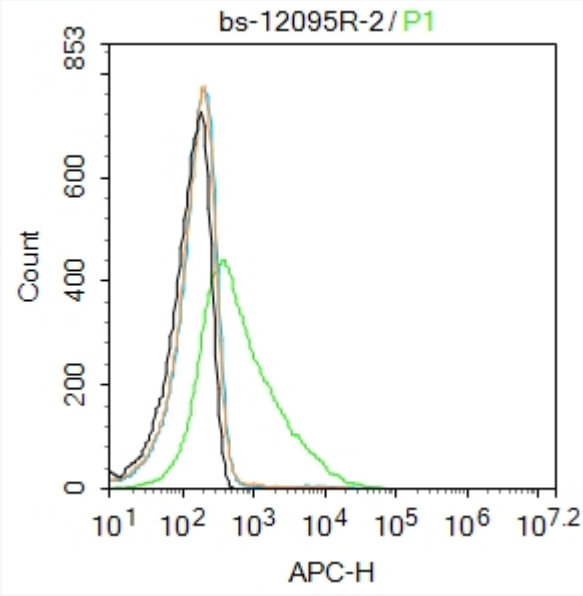
Secondary Antibody : Goat anti-rabbit IgG-APC

Dilution: 1µg /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at 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: 2μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-APC

Dilution: 1μg /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at 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.