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Rabbit Anti-GLUR4 antibody

SL12009R

Product Name	GLUR4
Chinese Name	离子型谷氨酸受体 4 抗体
Alias	Ionotropic Glutamate receptor 4; AMPA 4; AMPA selective glutamate receptor 4; AMPA-select receptor 4; AMPA4; GluA 4; GluA4; GluR 4; GluR D; GluR-4; GluR-D; GLUR4C; GLURD; G receptor 4; Glutamate receptor ionotrophic AMPA 4; Glutamate receptor ionotropic; GRIA 4; G GRIA4_HUMAN.
Research Area	Neurobiology Signal transduction Channel protein The cell membrane 受体 G protein-coupled r protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Chicken, Dog, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	98kDa
Cellular localization	The cell membrane Extracellular matrix
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GluA4/Ionotropic Glutamate receptor 4:
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 d applications.

PubMed PubMed

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian activated in a variety of normal neurophysiologic processes. These receptors are heteromeric pro composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of receptors is based on their activation by different pharmacologic agonists. The subunit encoded b belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensiti receptors, and is subject to RNA editing (AGA->GGA; R->G). Alternative splicing of this gene transcript variants encoding different isoforms, which may vary in their signal transduction prop haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq, Ju

Function:
Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synaps nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation to the opening of the cation channel, and thereby converts the chemical signal to an electrical im receptor then desensitizes rapidly and enters a transient inactive state, characterized by the prese agonist.

Subunit:
Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be dimerization of dimers. Interacts with EPB41L1 via its C-terminus (By similarity). Found in a co GRIA1, GRIA2, GRIA3, CNIH2, CNIH3, CACNG2, CACNG3, CACNG4, CACNG5, CACNG

Product Detail

CACNG8. Interacts with CACNG5 and PRKCG

Subcellular Location:
Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membra membrane protein. Cell projection, dendrite. Note=Interaction with CNIH2, CNIH3 and PRKCG surface expression

Post-translational modifications:
Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-611 palmitoylation leads to Go and decreased cell surface expression. In contrast, Cys-837 palmitoylation does not affect cell sur but regulates stimulation-dependent endocytosis.

Similarity:
Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA4 subfamily.

SWISS:
P48058

Gene ID:
2893

Database links:

Entrez Gene: 2893 Human

Entrez Gene: 14802 Mouse

Entrez Gene: 29629 Rat

Omim: 138246 Human

SwissProt: P48058 Human

SwissProt: Q9Z2W8 Mouse

SwissProt: P19493 Rat

Unigene: 503743 Human

Unigene: 209263 Mouse

Unigene: 10938 Rat