



Rabbit Anti-GRIK5 antibody

SL12033R

Product Name GRIK5

Chinese Name 谷氨酸受体红藻氨酸离子 5 抗体

Alias EAA 2; EAA2; Excitatory amino acid receptor 2; GluRgamma2; Glutamate receptor; Glutamate receptor KA-2; Glutamate receptor KA2; Glutamate receptor, ionotropic kainate 5 [P]; Glutamate receptor, ionotropic, kainate 5 (gamma 2); Glutamate receptor, ionotropic, kainate 5; 5; GRIK2; Grik5; GRIK5_HUMAN; iGlu5; ionotropic kainate 5; KA2; MGC118086.

Research Area Neurobiology Channel protein The cell membrane 受体

Immunogen Species Rabbit

Clonality Polyclonal

React Species (predicted: Human, Mouse, Rat, Dog, Pig, Sheep,)
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)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 109kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human GRIK5/KA2: 201-300/980 <Extracellul

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°C. 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

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Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in synaptic plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-selective ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and share several structurally related subunits GluR-1 to -7, KA1 and KA2. KA1 (also designated EEA1) and KA2 (also designated EEA2) form heteromeric receptors with GluR subunits when coexpressed, forming ion channels with various properties. The kainate/AMPA receptors are primarily responsible for the fast excitatory neurotransmission by glutamate.

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 after their selective agonists. This receptor binds kainate > quisqualate > domoate > L-glutamate >> NMDA = 1S,3R-ACPD.

Subunit:

Tetramer of two or more different subunits. Associates with GRIK1 (both edited and unedited version) or GRIK3 to form functional channels. Homomeric associations do not produce any channel activity.

Product Detail

Subcellular Location:

Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane, plasma membrane protein.

Similarity:

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK5 subfamily.

SWISS:

Q16478

Gene ID:

2901

Database links:

[Entrez Gene: 2901](#) Human

[Entrez Gene: 14809](#) Mouse

[Entrez Gene: 24407](#) Rat

[Omim: 600283](#) Human



[SwissProt: Q16478](#) Human

[SwissProt: Q61626](#) Mouse

[SwissProt: Q63273](#) Rat

[Unigene: 367799](#) Human

[Unigene: 2879](#) Mouse

[Unigene: 74042](#) Rat