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Rabbit Anti-GRIK3 antibody

SL12007R

Product Name	GRIK3
Chinese Name	谷氨酸受体红藻氨酸离子 3/谷氨酸受体 7 抗体
Alias	EAA5; Excitatory amino acid receptor 5; GLR 7; GLR7; GLU R7; GLUR 7; GluR 7a; GluR-7; GLUR7; GluR7a; Glutamate receptor 7; Glutamate receptor; Glutamate receptor ionotropic kainate 3; GRIK 3; GRIK3; GRIK3_HUMAN; ionotropic kainate 3.
Research Area	Tumour Cell biology Neurobiology Signal transduction The cell membrane 受体 G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep)
Applications	Flow-Cyt=2ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	100kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GRIK3/GLR7: 501-600/919 <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 are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. It is not certain if the subunit encoded by this gene is subject to RNA editing as the other 2 family members (GRIK1 and GRIK2). A Ser310Ala polymorphism has been associated with schizophrenia, and there are conflicting reports of its association with the pathogenesis of delirium tremens in alcoholics. [provided by RefSeq, Jul 2008]

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. This receptor binds domoate > kainate >> L-glutamate = quisqualate >> AMPA = NMDA.

Subunit:
Homotetramer, and heterotetramer with either GRIK4 or GRIK5. Interacts with PRKCABP. Interacts with NETO2.

Subcellular Location:
Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein.

Similarity:
Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK3 subfamily.

SWISS:
Q13003

Gene ID:
2899

Database links:

Entrez Gene: 2899 Human

Entrez Gene: 14807 Mouse

Entrez Gene: 298521 Rat

Omim: 138243 Human

SwissProt: Q13003 Human

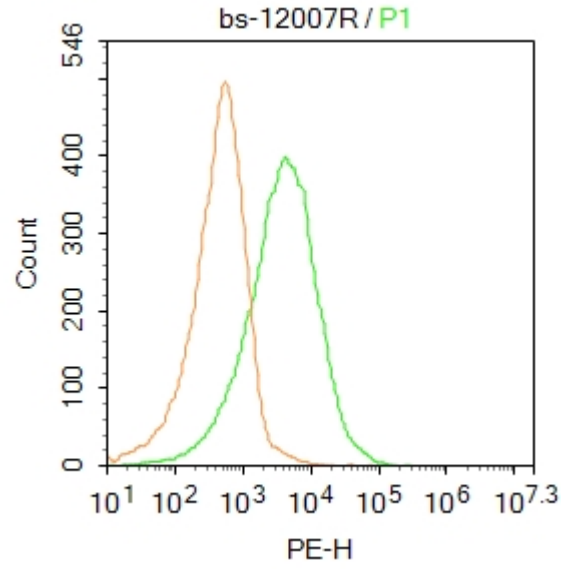
SwissProt: B1AS29 Mouse

SwissProt: P42264 Rat

Unigene: 128848 Human

Unigene: 92477 Rat

Product Picture



Blank control:MCF7.

Primary Antibody (green line): Rabbit Anti-GRIK3 antibody (SL12007R)

Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 2μg /test.

Protocol

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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.