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ARG55272
anti-GRIK1 / GluR5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GRIK1 / GluR5
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GRIK1 / GluR5
Species	Human
Immunogen	Synthetic peptide (15 aa) within the last 50 aa of Human GRIK1 / GluR5.
Conjugation	Un-conjugated
Alternate Names	GluR5; GluK1; GLUR5; EEA3; GluR-5; Excitatory amino acid receptor 3; Glutamate receptor ionotropic, kainate 1; EAA3; Glutamate receptor 5; GLR5

Application Instructions

Application table

Application	Dilution
IHC-P	2.5 µg/ml
WB	0.5 - 2 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	P815 Cell Lysate

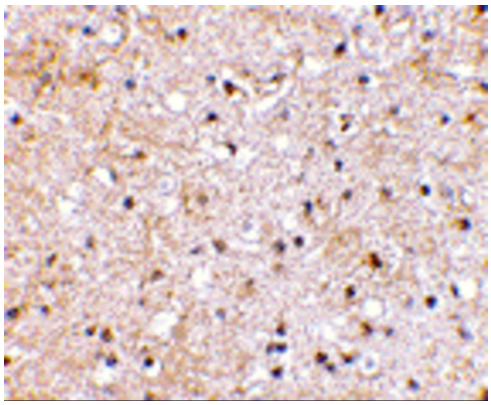
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

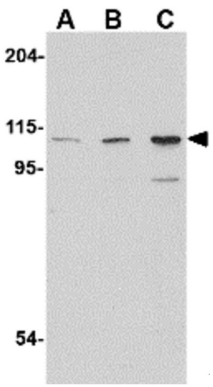
Database links	GeneID: 2897 Human Swiss-port # P39086 Human
Gene Symbol	GRIK1
Gene Full Name	glutamate receptor, ionotropic, kainate 1
Background	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic 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. The subunit encoded by this gene is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to alter the properties of ion flow. Alternative splicing, resulting in transcript variants encoding different isoforms, has been noted for this gene. [provided by RefSeq, Jul 2008]
Function	Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. May be involved in the transmission of light information from the retina to the hypothalamus. [UniProt]
Research Area	Neuroscience antibody
Calculated Mw	104 kDa

Images



ARG55272 anti-GRIK1 / GluR5 antibody IHC-P image

Immunohistochemistry: Human brain tissue stained with ARG55272 anti-GRIK1 / GluR5 antibody at 2.5 µg/ml dilution.



ARG55272 anti-GRIK1 / GluR5 antibody WB image

Western blot: P815 cell lysate stained with ARG55272 anti-GRIK1 / GluR5 antibody at (A) 0.5, (B) 1 and (C) 2 µg/ml dilution.