

ARG59676 anti-GRIK1 / GluR5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GRIK1 / GluR5
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GRIK1 / GluR5
Species	Human
Immunogen	Recombinant protein corresponding to R271-I450 of Human GRIK1.
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	1:200 - 1:1000
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

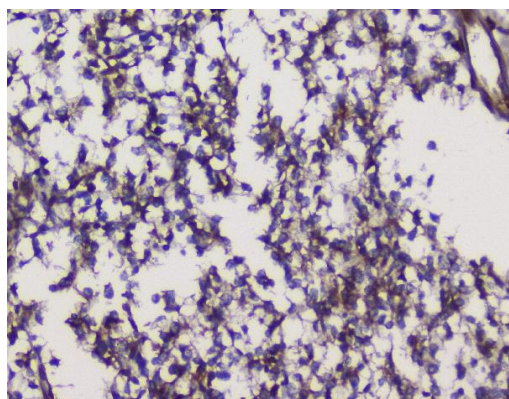
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 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

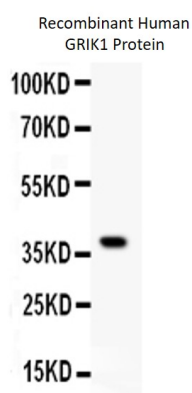
Gene Symbol	GRIK1
Gene Full Name	glutamate receptor, ionotropic, kainate 1
Background	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to the kainate family 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]
Calculated Mw	104 kDa
Cellular Localization	Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. [UniProt]

Images



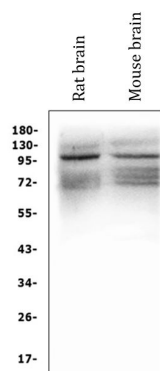
ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human glioma tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59676 anti-GRIK1 / GluR5 antibody at 1 µg/ml dilution, overnight at 4°C.



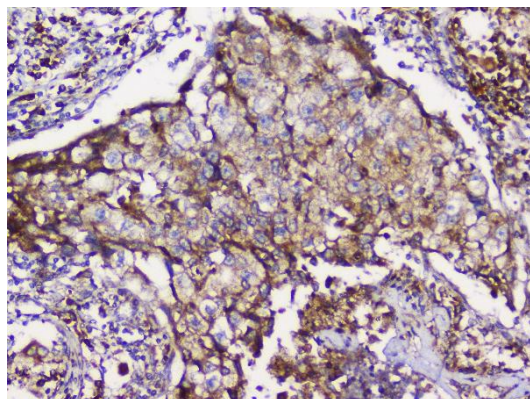
ARG59676 anti-GRIK1 / GluR5 antibody WB image

Western blot: 0.5 ng of Recombinant Human GRIK1 Protein stained with ARG59676 anti-GRIK1 / GluR5 antibody at 0.5 µg/ml dilution.



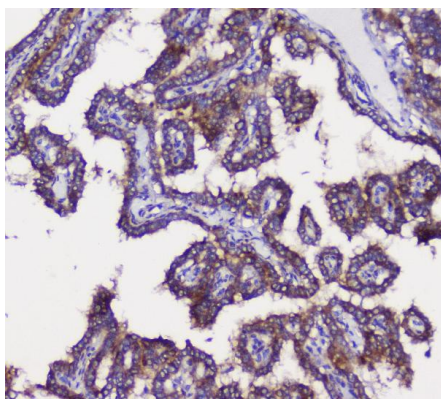
ARG59676 anti-GRIK1 / GluR5 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat brain and Mouse brain lysates stained with ARG59676 anti-GRIK1 / GluR5 antibody at 0.5 µg/ml dilution, overnight at 4°C.



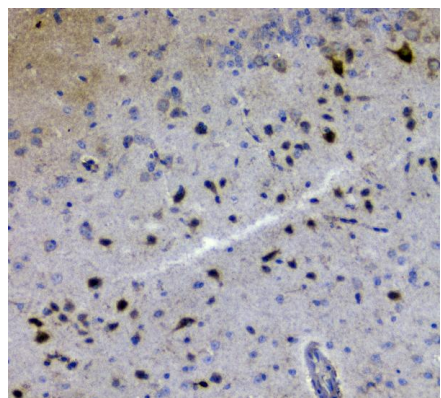
ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59676 anti-GRIK1 / GluR5 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thyroid cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59676 anti-GRIK1 / GluR5 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59676 anti-GRIK1 / GluR5 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG59676 anti-GRIK1 / GluR5 antibody WB image

Western blot: 50 µg of Mouse brain (Lane 1, 2) and 40 µg of SHG whole cell lysate (Lane 3) stained with ARG59676 anti-GRIK1 / GluR5 antibody at 0.5 µg/ml dilution.