

## 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.

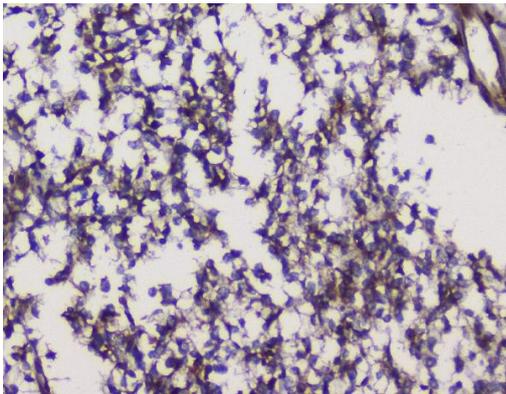
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 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

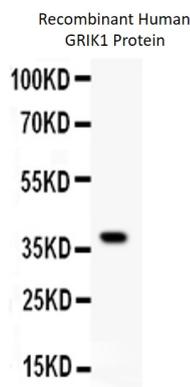
Gene Symbol	GRIK1
Gene Full Name	glutamate receptor, ionotropic, kainate 1
Background	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to the kainate family 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



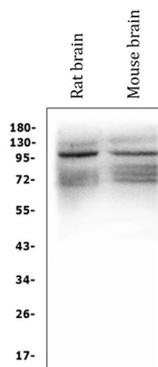
ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

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.



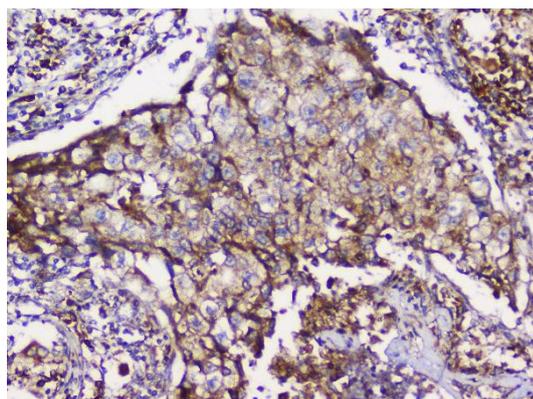
ARG59676 anti-GRIK1 / GluR5 antibody WB image

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



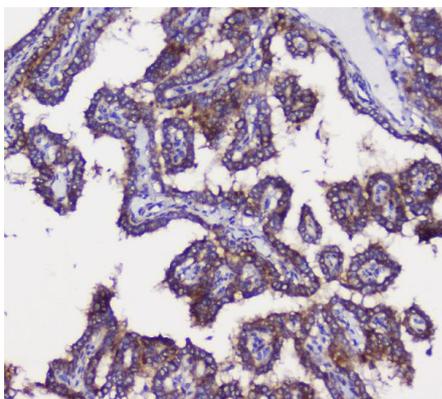
#### ARG59676 anti-GRIK1 / GluR5 antibody WB image

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.



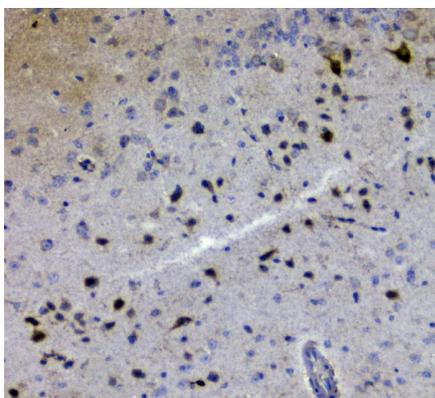
#### ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

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.



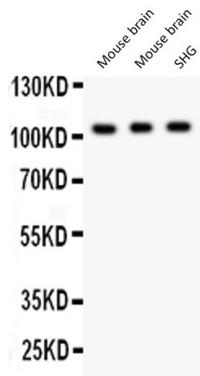
#### ARG59676 anti-GRIK1 / GluR5 antibody IHC-P image

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.