

**GRIK3 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13113A****Specification**

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**GRIK3 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q13003</a>
Other Accession	<a href="#">P42264</a> , <a href="#">B1AS29</a> , <a href="#">Q38PU2</a> , <a href="#">NP_000822.2</a>
Reactivity	Mouse
Predicted	Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	104037
Antigen Region	70-98

**GRIK3 Antibody (N-term) - Additional Information****Gene ID** 2899**Other Names**

Glutamate receptor ionotropic, kainate 3, GluK3, Excitatory amino acid receptor 5, EAA5,  
Glutamate receptor 7, GluR-7, GluR7, GRIK3, GLUR7

**Target/Specificity**

This GRIK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 70-98 amino acids from the N-terminal region of human GRIK3.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GRIK3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GRIK3 Antibody (N-term) - Protein Information****Name** GRIK3

## Synonyms GLUR7

**Function** Receptor for glutamate that functions as a ligand-gated ion channel in the central nervous system and plays an important role in excitatory synaptic transmission. 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.

## Cellular Location

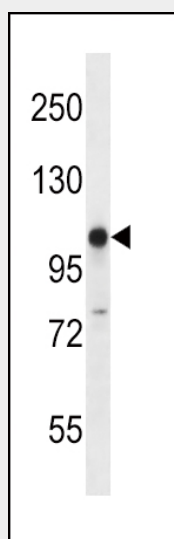
Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein

## GRIK3 Antibody (N-term) - Protocols

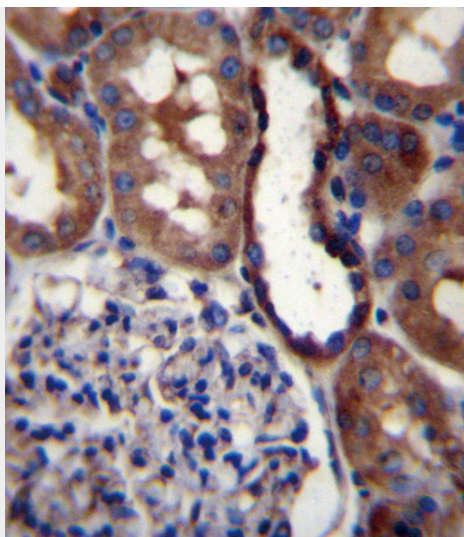
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## GRIK3 Antibody (N-term) - Images



GRIK3 Antibody (N-term) (Cat. #AP13113a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the GRIK3 antibody detected the GRIK3 protein (arrow).



GRIK3 Antibody (N-term) (Cat. #AP13113a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GRIK3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **GRIK3 Antibody (N-term) - 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. 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].

#### **GRIK3 Antibody (N-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Luciano, M., et al. Behav. Genet. 40(4):518-532(2010)  
Kilic, G., et al. Psychiatry Res 175 (1-2), 43-46 (2010) :  
Gill, M.B., et al. J. Biol. Chem. 284(21):14503-14512(2009)  
Ahmad, Y., et al. World J. Biol. Psychiatry 10(4):330-333(2009)