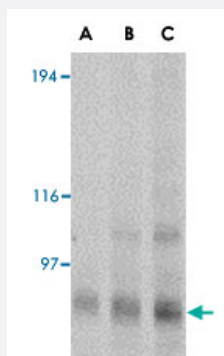


GRIK4 polyclonal antibody

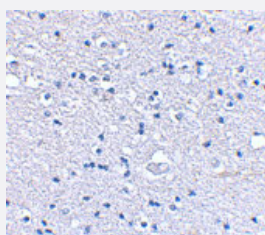
Catalog # PAB13314 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of GRIK4 in rat brain tissue lysate with GRIK4 polyclonal antibody (Cat # PAB13314) at (A) 0.5, (B) 1 and (C) 2 ug/mL .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human brain tissue using GRIK4 polyclonal antibody (Cat # PAB13314) at 2.5 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GRIK4.
Immunogen	A synthetic peptide corresponding to N-terminus 14 amino acids of human GRIK4.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of GRIK4 in rat brain tissue lysate with GRIK4 polyclonal antibody (Cat # PAB13314) at (A) 0.5, (B) 1 and (C) 2 ug/mL .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human brain tissue using GRIK4 polyclonal antibody (Cat # PAB13314) at 2.5 ug/mL .

Gene Info — GRIK4

Entrez GeneID	2900
Protein Accession#	Q16099
Gene Name	GRIK4
Gene Alias	EAA1, GRIK, KA1
Gene Description	glutamate receptor, ionotropic, kainate 4
Omim ID	600282
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that belongs to the glutamate-gated ionic channel family. Glutamate functions as the major excitatory neurotransmitter in the central nervous system through activation of ligand-gated ion channels and G protein-coupled membrane receptors. The protein encoded by this gene forms functional heteromeric kainate-preferring ionic channels with the subunits encoded by related gene family members. [provided by RefSeq]
Other Designations	excitatory amino acid receptor 1 glutamate receptor KA1

Publication Reference

- [GRIK4 and the kainate receptor.](#)

Mayer ML.

The American Journal of Psychiatry 2007 Aug; 164(8):1148.

- [Kainate receptors.](#)

Pinheiro P, Mülle C.

Cell and Tissue Research 2006 Jul; 326(2):457.

- [Cytogenetic and genetic evidence supports a role for the kainate-type glutamate receptor gene, GRIK4, in schizophrenia and bipolar disorder.](#)

Pickard BS, Malloy MP, Christoforou A, Thomson PA, Evans KL, Morris SW, Hampson M, Porteous DJ, Blackwood DH, Muir WJ.

Molecular Psychiatry 2006 Sep; 11(9):847.

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Bipolar Disorder](#)
- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)