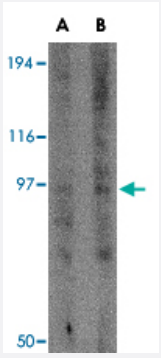
GRIK3 polyclonal antibody

Catalog # PAB13015 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of GRIK3 in human brain tissue lysate with GRIK3 polyclonal antibody (Cat # PAB13015) at (A) 1 and (B) 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GRIK3.
Immunogen	A synthetic peptide corresponding to N-terminus 13 amino acids of human GRIK3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (1-2 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 shoul d be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

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Gene Info — GRIK3

Entrez GeneID	2899
Protein Accession#	CAI19119
Gene Name	GRIK3
Gene Alias	EAA5, GLR7, GLUR7, GluR7a
Gene Description	glutamate receptor, ionotropic, kainate 3
Omim ID	138243
Gene Ontology	Hyperlink
Gene Summary	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 belo ngs to the kainate family of glutamate receptors, which are composed of four subunits and functio n 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 p athogenesis of delirium tremens in alcoholics. [provided by RefSeq
Other Designations	OTTHUMP00000004360|dJ1090M5.1 (glutamate receptor, ionotropic, kainate 3 (GLUR7))|excita tory amino acid receptor 5|glutamate receptor 7

Publication Reference

- GluR7 is an essential subunit of presynaptic kainate autoreceptors at hippocampal mossy fiber synapses.

  Pinheiro PS, Perrais D, Coussen F, Barhanin J, Bettler B, Mann JR, Malva JO, Heinemann SF, Mulle C.

  PNAS 2007 Jul; 104(29):12181.

  Application: WB-Ti, Mouse, Mouse hippocampal synaptosomal membranes

- Kainate receptors.

  Pinheiro P, Mulle C.

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

- Chromosomal localization of gene for human glutamate receptor subunit-7.

  Puranam RS, Eubanks JH, Heinemann SF, McNamara JO.

  Somatic Cell and Molecular Genetics 1993 Nov; 19(6):581.

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Alcohol Withdrawal Delirium
- Alcohol Withdrawal Seizures
- Alcoholism
- Autistic Disorder
- Bipolar Disorder
- Depressive Disorder
- Genetic Predisposition to Disease
- Mental Disorders
- Obsessive-Compulsive Disorder
- Personality Assessment
- Psychiatric Status Rating Scales
- Psychotic Disorders
- Recurrence
- Schizophrenia
- Schizophrenic Psychology

- Tobacco Use Disorder