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GRIK5 Rabbit pAb

Catalog # AP97556

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q16478
Other Accession	Q16478
Predicted	Rat, Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	109265
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GRIK5/KA2
Epitope Specificity	201-300/980
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK5 subfamily.
SUBUNIT	Tetramer of two or more different subunits. Associates with GRIK1 (both edited and unedited versions), GRIK2, or GRIK3 to form functional channels. Homomeric associations do not produce any channel activity
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and consist of the structurally related subunits GluR-1 to -7, KA1 and KA2. KA1 (also designated EEA1) and KA2 (also designated EEA2) form heteromeric receptors with GluR subunits when coexpressed, forming ion channels with various properties. The kainate/AMPA receptors are primarily responsible for the fast excitatory neuro-transmission by glutamate.

Additional Information

Gene ID	2901
Other Names	GRIK5_HUMAN; GRIK5; GluK5; Excitatory amino acid receptor 2 (EAA2); Glutamate receptor KA-2 (KA2); GRIK2; GRIK5_MOUSE; Glutamate receptor gamma-2 (GluR gamma-2); GRIK5_RAT; glutamate ionotropic receptor kainate type subunit 5; glutamate receptor, ionotropic, kainate 5
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GRIK5
Synonyms	GRIK2
Function	Ionotropic glutamate receptor that functions as a cation- permeable ligand-gated ion channel, gated by L-glutamate and the glutamatergic agonist kainic acid. Cannot form functional channels on its own and produces channel activity only in heteromeric assembly with GRIK1 and GRIK2 subunits (PubMed:1321949, PubMed:14511640, PubMed:8730589). Can form functional heteromeric receptors with GRIK3 (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q61626}; Multi-pass membrane protein. Presynaptic cell membrane {ECO:0000250|UniProtKB:Q61626}; Multi-pass membrane protein. Note=Association with GRIK2 is required for its cell membrane localization and channel activity

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.