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# GRIK5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17247a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q16478 |
| **Other Accession** | Q63273, Q61626, NP_002079.3 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB37058 |
| **Calculated MW** | 109265 |
| **Antigen Region** | 101-129 |

## Additional Information

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| **Gene ID** | 2901 |
| **Other Names** | Glutamate receptor ionotropic, kainate 5, GluK5, Excitatory amino acid receptor 2, EAA2, Glutamate receptor KA-2, KA2, GRIK5, GRIK2 |
| **Target/Specificity** | This GRIK5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 101-129 amino acids from the N-terminal region of human GRIK5. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **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** | GRIK5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | GRIK5 |
| **Synonyms** | GRIK2 |

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| **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 |

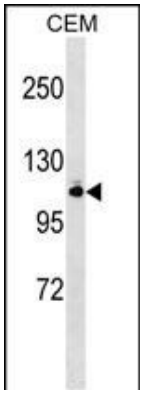
## Background

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].

## References


Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :
Gill, M.B., et al. J. Biol. Chem. 284(21):14503-14512(2009)
Arai, S., et al. Psychiatr. Genet. 19(1):6-13(2009)
Fotheringham, J., et al. J Neuroimmune Pharmacol 3(2):105-116(2008)
Shibata, H., et al. Psychiatry Res 141(1):39-51(2006)


## Images




GRIK5 Antibody (N-term) (Cat. #AP17247a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the GRIK5 antibody detected the GRIK5 protein (arrow).