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# GRIK2 Antibody

Rabbit mAb
Catalog # AP92443

## Product Information

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| **Application** | WB, IHC |
| **Primary Accession** | Q13002 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | EAA4; GLR6; MRT6; GLUK6; GLUR6; GluK2; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 102583 |

## Additional Information

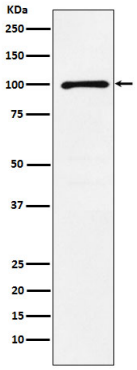
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| **Dilution** | WB 1:500~1:2000 IHC 1:50~1:200 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human GRIK2 |
| **Description** | Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

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| **Name** | GRIK2 |
| **Synonyms** | GLUR6 |
| **Function** | Ionotropic glutamate receptor that functions as a cation- permeable ligand-gated ion channel, gated by L-glutamate and the glutamatergic agonist kainic acid (PubMed:7536611, PubMed:8730589, PubMed:14511640). L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system (By similarity). Binding of the excitatory neurotransmitter L-glutamate induces a conformational change leading to the opening of the cation channel, converting the chemical signal to an electrical impulse (By similarity). The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist (PubMed:14511640, PubMed:28180184, PubMed:34375587, PubMed:7536611, PubMed:8730589). Modulates cell surface expression of NETO2 (By similarity). In association with GRIK3, involved in presynaptic |

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| | facilitation of glutamate release at hippocampal mossy fiber synapses (By similarity). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein {ECO:0000250\|UniProtKB:P42260}. Postsynaptic cell membrane {ECO:0000250\|UniProtKB:P42260}; Multi-pass membrane protein {ECO:0000250\|UniProtKB:P42260} |
| **Tissue Location** | Expression is higher in cerebellum than in cerebral cortex. |

## Images




Western blot analysis of GRIK2 expression in A431 cell lysate.

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