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Product datasheet for AP06140PU-M

GRIK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western blot**: 1/500-1/1000. **Immunohistochemistry on Paraffin Sections**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids N-terminus of Human GluR-5.
Specificity:	This antibody detects endogenous levels of GluR5 protein. (region surrounding Leu12)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~100 kDa
Gene Name:	glutamate ionotropic receptor kainate type subunit 1
Database Link:	Entrez Gene 2897 Human P39086

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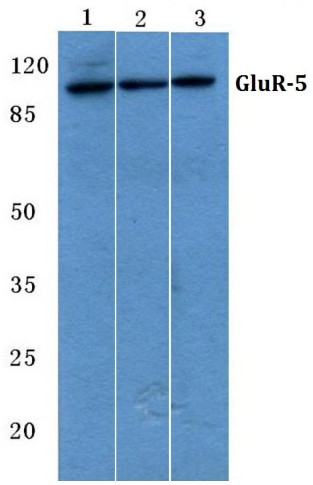
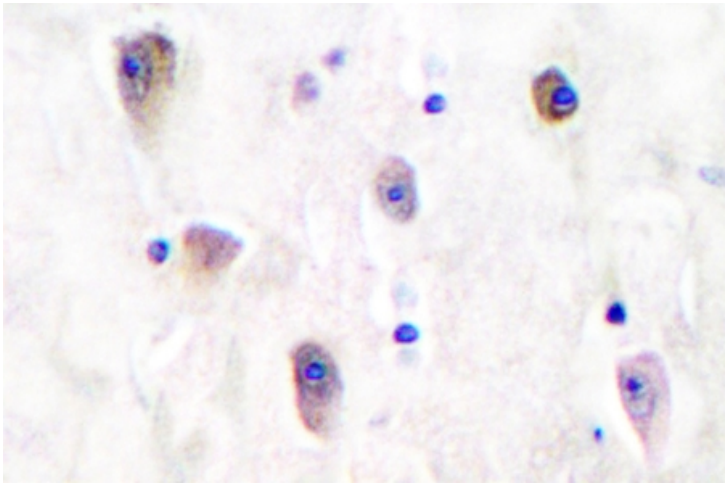
Background: Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamategated, caution-specific ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to -7. The kainate/AMPA receptors are primarily responsible for the fast excitatory neuro-transmission by glutamate whereas the NMDA receptors are functionally characterized by a slow kinetic and a high permeability for Ca2+ ions. The NMDA receptors consist of five subunits: epsilion 1, 2, 3, 4 and one zeta subunit. The zeta subunit is expressed throughout the brainstem whereas the four epsilon subunits display limited distribution.

Synonyms: Excitatory amino acid receptor 3, EAA3, GRIK1

Product images:



Western blot (WB) analysis of GluR-5 at 1/500 dilution Lane 1 :HEK293T whole cell lysate Lane 2 :Mouse liver tissue lysate Lane 3 :Rat liver tissue lysate



Immunohistochemistry (IHC) analyzes of GluR5 antibody in paraffin-embedded human brain tissue.