

Rabbit GRIK2 Polyclonal Antibody | anti-GRIK2 antibody

GRIK2 Antibody

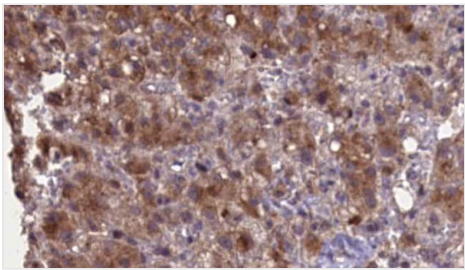
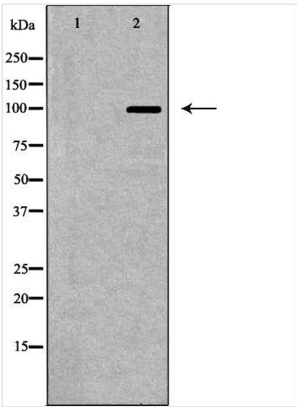
CATALOG # AAA326470	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

GRIK2; Polyclonal Antibody; GRIK2 Antibody; bA487F5.1; EAA4; Excitatory amino acid receptor 4; GLR 6; GLR6; GluK2; GLUK6; GLUR 6; GluR-6; GluR6; Glutamate receptor 6; Glutamate receptor; glutamate receptor form A; glutamate receptor form B; glutamate receptor form C; glutamate receptor form D; glutamate receptor form E; Glutamate receptor ionotropic kainate 2; GRIK 2; GRIK2 protein; GRIK2_HUMAN; ionotropic kainate 2; MRT6; anti-GRIK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GRIK2 antibody detects endogenous levels of total GRIK2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	892
Applicable Applications for anti-GRIK2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GRIK2
Subcellular Location	Cell Membrane. Cell Junction > Synapse > Postsynaptic Cell Membrane.
Tissue Specificity	Expression is higher in cerebellum than in cerebral cortex.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326470 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Mouse brain lysate, using GRIK2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GRIK2 antibody

Description: 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 belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. The subunit encoded by this gene is subject to RNA editing at multiple sites within the first and second transmembrane domains, which is thought to alter the structure and function of the receptor complex. Alternatively spliced transcript variants encoding different isoforms have also been described for this gene. Mutations in this gene have been associated with autosomal recessive mental retardation.

Function: 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. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist (PubMed:28180184). May be involved in the transmission of light information from the retina to the hypothalamus. Modulates cell surface expression of NETO2 (By similarity).

Subunit Structure: Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be formed by the dimerization of dimers (Probable). Assembles into a kainate-gated homomeric channel that does not bind AMPA. GRIK2 associated to GRIK5 forms functional channels that can be gated by AMPA (By similarity). Interacts with DLG4. Interacts with NETO2 (By similarity). Interacts (via C-terminus) with KLHL17 (via kelch repeats); the interaction targets GRIK2 for degradation via ubiquitin-proteasome pathway (By similarity).

Post-translational Modifications: Sumoylation mediates kainate receptor-mediated endocytosis and regulates synaptic transmission. Sumoylation is enhanced by PIAS3 and desumoylated by SENP1 (By similarity). Ubiquitinated. Ubiquitination regulates the GRIK2 levels at the synapse by leading kainate receptor degradation through proteasome (By similarity). Phosphorylated by PKC at Ser-868 upon agonist activation, this directly enhance sumoylation.

Similarity: Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK2 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	261278362
NCBI GeneID	2898
NCBI Accession #	NP_001159719.1
NCBI GenBank Nucleotide #	NM_001166247.1
UniProt Accession #	Q13002; Q8WWS1; Q96KS6; Q96KS7; Q96KS8; A6NMY9; B5MCV0; D7RWZ3; D7RWZ4; D7RWZ5; D7RWZ6; D7RWZ7
Molecular Weight	Observed: 103 kDa Predicted: 103 kDa
NCBI Official Full Name	glutamate receptor ionotropic, kainate 2 isoform 3

NCBI Official Synonym Full Names	glutamate ionotropic receptor kainate type subunit 2
NCBI Official Symbol	GRIK2
NCBI Official Synonym Symbols	EAA4; GLR6; MRT6; GLUK6; GLUR6; GluK2
NCBI Protein Information	glutamate receptor ionotropic, kainate 2
UniProt Protein Name	Glutamate receptor ionotropic, kainate 2
UniProt Gene Name	GRIK2
UniProt Synonym Gene Names	GLUR6; GluK2; EAA4; GluR-6; GluR6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/grik2-antibody-immunohistochemistry-western-blot-elisa/326470>