

Rabbit GluR5 Polyclonal Antibody | anti-GluR5 antibody

GluR5 Antibody

CATALOG # AAA320814	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

GluR5; Polyclonal Antibody; GluR5 Antibody; EAA3; EEA3; Excitatory amino acid receptor 3; GLR5; GluR-5; GluR6; GluR7; Glutamate receptor 5; Glutamate receptor; Glutamate receptor ionotropic kainate 1; GRIK1; GRIK1_HUMAN; Human glutamate receptor GLUR5; ionotropic kainate 1; OTTHUMP00000096569; anti-GluR5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GluR5 antibody detects endogenous levels of total GluR5
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	918
Applicable Applications for anti-GluR5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GluR5
Subcellular Location	Cell Membrane. Cell Junction > Synapse > Postsynaptic Cell Membrane.
Tissue Specificity	Most abundant in the cerebellum and the suprachiasmatic nuclei (SCN) of the hypothalamus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA320814 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 on mouse brain lysate using GluR5 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GluR5 antibody	Description: GluR5 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. May be involved in the transmission of light information from the retina to the hypothalamus. 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. May be involved in the transmission of light information from the retina to the hypothalamus. Subunit Structure: Homotetramer or heterotetramer of pore-forming glutamate receptor subunits. Tetramers may be formed by the dimerization of dimers (Probable). The unedited version (Q) assembles into a functional kainate-gated homomeric channel, whereas the edited version (R) is unable to produce channel activity when expressed alone. Both edited and unedited versions can form functional channels with GRIK4 and GRIK5. Interacts with KLHL17 (By similarity). Similarity: Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK1 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504117
NCBI GeneID	2897
NCBI Accession #	NP_000821.1
NCBI GenBank Nucleotide #	NM_000830.4
UniProt Accession #	P39086; Q13001; Q86SU9
Molecular Weight	Observed: 100 kDa Predicted: 104 kDa
NCBI Official Full Name	glutamate receptor ionotropic, kainate 1 isoform 1
NCBI Official Synonym Full Names	glutamate ionotropic receptor kainate type subunit 1
NCBI Official Symbol	GRIK1
NCBI Official Synonym Symbols	EAA3; EEA3; GLR5; GLUR5; GluK1; gluR-5
NCBI Protein Information	glutamate receptor ionotropic, kainate 1
UniProt Protein Name	Glutamate receptor ionotropic, kainate 1
UniProt Gene Name	GRIK1
UniProt Synonym Gene Names	GLUR5; GluK1; EAA3; GluR-5; GluR5

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.