

Tel: 400-999-8863
 ■ Email:Upingbio.163.com





GluR-2 Polyclonal Antibody

Catalog No	YP-Ab-16423
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	GRIA2
Protein Name	Glutamate receptor 2
Immunogen	The antiserum was produced against synthesized peptide derived from human GluR2. AA range:834-883
Specificity	GluR-2 Polyclonal Antibody detects endogenous levels of GluR-2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GRIA2; GLUR2; Glutamate receptor 2; GluR-2; AMPA-selective glutamate receptor 2; GluR-B; GluR-K2; Glutamate receptor ionotropic; AMPA 2; GluA2
Observed Band	99kD
Cell Pathway	Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic density membrane; Multi-pass membrane protein. Interaction with
	CACNG2, CNIH2 and CNIH3 promotes cell surface expression (By similarity). Displays a somatodendritic localization and is excluded from axons in neurons (By similarity).
Tissue Specificity	Displays a somatodendritic localization and is excluded from axons in neurons



UpingBio technology Co.,Ltd

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binds AMPA (quisqualate) > glutamate > kainate.,PTM:Palmitoylated.
Depalmitoylated upon glutamate stimulation. Cys-610 palmitoylation leads to
Golgi retention and decreased cell surface expression. In contrast, Cys-836
palmitoylation does not affect cell surface expression but regul

Background

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 a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants enco

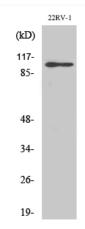
matters needing attention

Avoid repeated freezing and thawing!

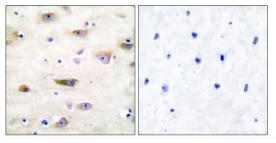
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

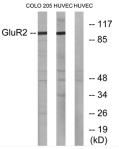
Products Images



Western Blot analysis of various cells using GluR-2 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using GluR2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 and HUVEC cells, using GluR2 Antibody. The lane on the right is blocked with the synthesized peptide.