

ARG64711 anti-GRIA4 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GRIA4
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize all reported isoforms (NP_000820.3; NP_001070711.1; NP_001070712.1). Reported variants NP_001070712.1 and NP_001106283.1 represent identical protein.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	GRIA4
Species	Human
Immunogen	C-KKLDQREYPGSETP
Conjugation	Un-conjugated
Alternate Names	GluA4; GLUR4C; GLUR4; Glutamate receptor ionotropic, AMPA 4; GluR-4; AMPA-selective glutamate receptor 4; GluR4; Glutamate receptor 4; GLURD; GluR-D

Application Instructions

Application table	Application	Dilution
	IHC-P	5 - 10 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

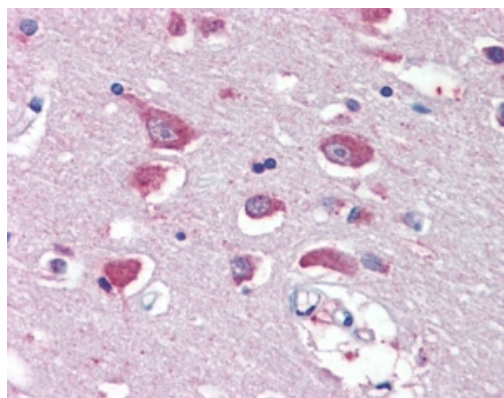
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

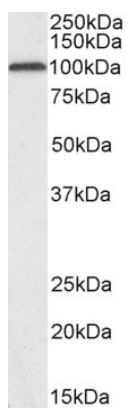
Database links	GeneID: 2893 Human Swiss-port # P48058 Human
Background	<p>Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA->GGA; R->G). Alternative splicing of this gene results in transcript variants encoding different isoforms, which may vary in their signal transduction properties. Some haplotypes of this gene show a positive association with schizophrenia. [provided by RefSeq, Jul 2008]</p>
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	101 kDa
PTM	<p>Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-611 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-837 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis (By similarity).</p> <p>Phosphorylated at Ser-862 by PRKCG; phosphorylation increases plasma membrane-associated GRI4 expression.</p>

Images



ARG64711 anti-GRIA4 antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Cortex. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG64711 anti-GRIA4 antibody at 5 µg/ml dilution followed by AP-staining.



ARG64711 anti-GRIA4 antibody WB image

Western blot: 35 µg of Human cerebellum lysate (in RIPA buffer) stained with ARG64711 anti-GRIA4 antibody at 2 µg/ml dilution and incubated at RT for 1 hour.