



Anti-GRIA1 (C-terminal) polyclonal antibody (CPBT-66715RR)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product recognises the glutamate receptor 1 (also known as AMPA) which 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. This antibody linked to immobilized Protein A immunoprecipitates detergent-solubilized receptor from brain or transfected cells. Peptide Sequence S-H-S-S-G-M-P-L-G-A-T-G-L Immunohistology Paraformaldehyde or paraformaldehyde/glutaraldehyde are suitable. Cryostat and vibratome sections can be used with or without Triton X-100 treatment. Western Blotting Western blot analysis of rat brain shows a single band of approximately 110 kDa co-migrating with GluR1 expressed in transfected cells.

Specificity	GluR1
Immunogen	Synthetic peptide corresponding to the C terminal region of the native molecule conjugated to Bovine Serum Albumin.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Hamster, Human, Monkey
Conjugate	Unconjugated
Applications	IHC-Fr; IP; WB
Format	Purified Ig - liquid
Size	50 µg

Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Gria1 glutamate receptor, ionotropic, AMPA 1 [Rattus norvegicus (Norway rat)]
Official Symbol	GRIA1
Synonyms	GRIA1; glutamate receptor, ionotropic, AMPA 1; GluA1; gluR-A; glutamate receptor 1; GluR1; gluR-1; gluR-K1; glutamate receptor A; glutamate receptor subunit GluR1; AMPA-selective glutamate receptor 1; glutamate receptor, ionotropic, AMPA1 (alpha 1); GLUR1
Entrez Gene ID	50592
Protein Refseq	NP_113796
UniProt ID	P19490
Chromosome Location	chromosome: 10
Pathway	Amphetamine addiction; Amyotrophic lateral sclerosis (ALS); Circadian entrainment; Dopaminergic synapse; Glutamatergic synapse; Hypothetical Network for Drug Addiction; Long-term depression; Long-term potentiation;
Function	G-protein alpha-subunit binding; G-protein beta-subunit binding; PDZ domain binding; adenylate cyclase binding; alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate selective glutamate receptor activity; beta-2 adrenergic receptor binding; extracellular-glutamate-gated ion channel activity; identical protein binding; ionotropic glutamate receptor activity; myosin V binding; protein binding; protein domain specific binding; protein homodimerization activity; protein kinase A binding; protein kinase binding; small GTPase binding;