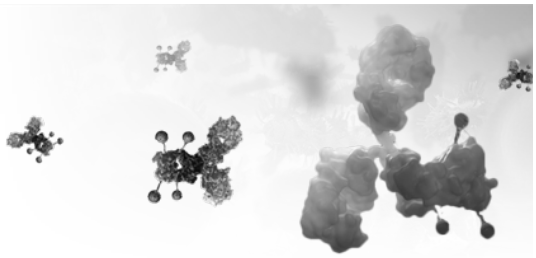

Magic™ Anti-GluR1 (Phospho S831) polyclonal antibody (CPBT-66716RG)

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

PRODUCT INFORMATION

Product Overview	This antibody is specific for rat glutamate receptor subunit 1 (GluR1) when phosphorylated at serine 831. GluR1, widely expressed throughout the nervous system, is a component of AMPA receptors (alpha-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid receptors), which play a key role at excitatory synapses. Phosphorylation of Ser831 and Ser845 is reported to potentiate GluR1 function, suggesting a possible role in synaptic plasticity, learning and memory. Western Blotting detects a band of approximately 100 kDa in rat brain lysates.
Specificity	GluR1
Target	GluR1
Immunogen	Synthetic phosphopeptide corresponding to amino acid sequence within GluR1 which includes phosphorylated Ser831.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Chicken, Dog, Human, Mouse
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	150 µl
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid

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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;

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