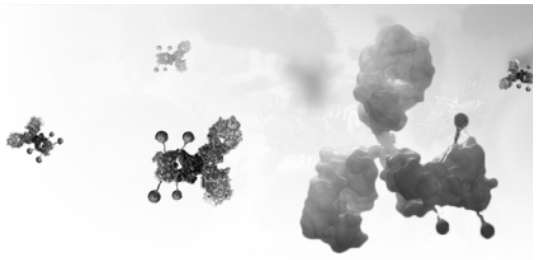

Anti-GRIA2 polyclonal antibody (CPBT-66718RG)

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

PRODUCT INFORMATION

Product Overview	This product is specific for glutamate receptor subunit 2 (GluR2), a component of the AMPA (alpha- amino-3-hydroxy-5-methyl-4-isoxalone propionic acid) group of ionotropic glutamate receptors, which play a key role at excitatory synapses, including synaptic transmission, stabilisation and plasticity. GluR2 is possibly the most important of the AMPA receptor subunits, responsible for AMPA receptor rectifying properties, control of ion flow and in particular the influx of calcium. The majority of GluR2 in the CNS is expressed in the GluR2(R) form, containing a critical arginine residue (as opposed to a glutamine residue) in the Transmembrane region 2 (TM2) domain, thereby rendering native AMPA receptors impermeable to calcium. Western Blotting detects a band of approximately 100 kDa in rat brain hippocampus cell lysates.
Specificity	GRIA2
Immunogen	Keyhole limpet haemocyanin conjugated synthetic peptide corresponding to an amino acid sequence within rat GluR2.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Chicken, Human, Monkey, Mouse, Zebrafish
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µl

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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	Gria2 glutamate receptor, ionotropic, AMPA 2 [Rattus norvegicus (Norway rat)]
Official Symbol	GRIA2
Synonyms	GRIA2; glutamate receptor, ionotropic, AMPA 2; GluA2; GluR2; gluR-B; GluR-K2; glutamate receptor 2; glutamate receptor B; AMPA-selective glutamate receptor 2;
Entrez Gene ID	29627
Protein Refseq	NP_001077280
UniProt ID	P19491
Chromosome Location	2q33
Pathway	Activation of AMPA receptors; Activation of NMDA receptor upon glutamate binding and postsynaptic events; Amphetamine addiction; Amyotrophic lateral sclerosis (ALS); Circadian entrainment; Cocaine addiction; Dopaminergic synapse; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity;
Function	PDZ domain binding; alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate selective glutamate receptor activity; contributes_to calcium channel regulator activity; extracellular-glutamate-gated ion channel activity; identical protein binding; ionotropic glutamate receptor activity; kainate selective glutamate receptor activity; protein binding; protein kinase binding; receptor activity;

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