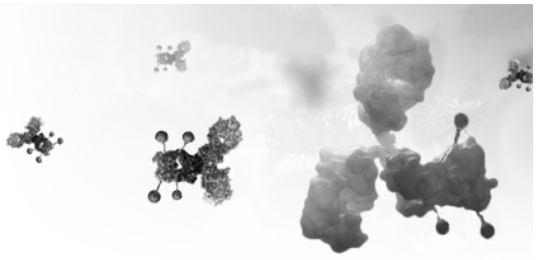

Anti-GRIN2A (N-terminal) polyclonal antibody (CPBT-66137RR)

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

PRODUCT INFORMATION

Product Overview	This product recognises the NR2A subunit of the NMDA (N-methyl-D-aspartate) receptor. Receptors for NMDA belong to a group of ionotropic glutamate receptors which play a key role in the mediation of glutamate neurotransmission within the mammalian central nervous system (CNS), including involvement in memory and learning processes. Several antagonists and agonists of NMDA receptors (NMDAR) have been identified. Properties of NMDAR include modulation by glycine, inhibition by Zn2+, voltage-dependent Mg2+ blockade and high Ca2+permeability. The involvement of NMDAR in the CNS has become a focus area for neurodegenerative diseases such as Alzheimer's disease and also epilepsy and ischemic neuronal cell death. Western Blotting detects a band of approximately 180kDa in rat hippocampal cell lysates.
Specificity	NMDAR NR2A
Immunogen	Peptide from the N-terminus of the NR2A subunit of rat NMDA receptor.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Bovine, Dog, Mouse
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide

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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	Grin2a glutamate receptor, ionotropic, N-methyl D-aspartate 2A [Rattus norvegicus (Norway rat)]
Official Symbol	GRIN2A
Synonyms	GRIN2A; glutamate receptor, ionotropic, N-methyl D-aspartate 2A; NR2A; GluN2A; NMDAR2A; glutamate receptor ionotropic, NMDA 2A; N-methyl D-aspartate receptor subtype 2A; N-methyl-D-aspartate receptor subunit 2A; glutamate [NMDA] receptor subunit epsilon-1
Entrez Gene ID	24409
Protein Refseq	NP_036705
UniProt ID	Q00959
Chromosome Location	10q11
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Alcoholism; Alzheimers disease; Amphetamine addiction; Amyotrophic lateral sclerosis (ALS); CREB phosphorylation through the activation of CaMKII; CREB phosphorylation through the activation of Ras; Calcium signaling pathway;
Function	ATPase binding; N-methyl-D-aspartate selective glutamate receptor activity; contributes_to N-methyl-D-aspartate selective glutamate receptor activity; calcium channel activity; contributes_to calcium channel activity; contributes_to cation channel activity; cation channel activity; cell adhesion molecule binding; extracellular-glutamate-gated ion channel activity; contributes_to extracellular-glutamate-gated ion channel activity; glutamate binding; glutamate receptor binding; ionotropic glutamate receptor activity; Contributes_to ionotropic glutamate receptor activity; neurotransmitter binding; protein binding; protein complex binding; protein dimerization activity; protein heterodimerization activity; protein kinase binding; receptor binding; scaffold protein binding; voltage-gated cation channel activity; zinc ion binding;

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