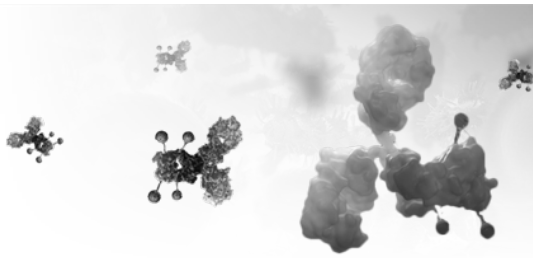

Anti-GRIN2A (aa 1253-1391) polyclonal antibody (CPBT-66734RR)

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

PRODUCT INFORMATION

Product Overview	Rabbit anti Rat NMDA Receptor NR2A antibody recognizes the NMDA (N-methyl- D-aspartate) receptor NMDAR2A subunit. NMDA receptors are a class of ionotropic glutamate receptors. NMDA channel has been shown to be involved in long term potentiation, an activity dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D).
Specificity	NMDAR NR2A
Immunogen	C-terminal fusion protein of rat NMDAR2A corresponding to amino acids 1253-1391.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Fish, Human, Mouse
Conjugate	Unconjugated
Applications	IHC-Fr; IP; WB
Format	Purified IgG - lyophilised
Size	10 µg, 100 µg
Preservative	None
Storage	in frost-free freezers is not recommended.

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

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;

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