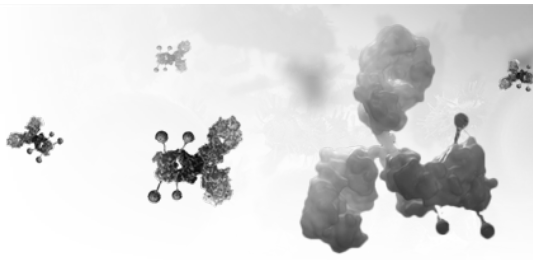

Anti-GRIN2B (aa 984-1104) polyclonal antibody (CPBT-66738RR)

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

PRODUCT INFORMATION

Product Overview	Rabbit anti Rat NMDA Receptor NR2B antibody recognises the 180kDa NMDA (N-methyl- D-aspartate) receptor NMDAR2B subunit. NMDA receptors are a class of ionotropic glutamate receptors. NMDA channels have 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), or NMDAR2D (GRIN2D).
Specificity	NMDAR NR2B
Immunogen	C-terminal fusion protein of Rat NMDAR2B (30kDa) corresponding to amino acids 984-1104.
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
Preservative	None
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.

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GENE INFORMATION

Gene Name	Grin2b glutamate receptor, ionotropic, N-methyl D-aspartate 2B [Rattus norvegicus (Norway rat)]
Official Symbol	GRIN2B
Synonyms	GRIN2B; glutamate receptor, ionotropic, N-methyl D-aspartate 2B; GluN2B; glutamate receptor ionotropic, NMDA 2B; NR2B; NMDAR2B; glutamate receptor, ionotropic, NMDA2B; N-methyl D-aspartate receptor subtype 2B; glutamate [NMDA] receptor subunit epsilon-2;
Entrez Gene ID	24410
Protein Refseq	NP_036706
UniProt ID	Q00960
Chromosome Location	4q43
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Alcoholism; Alzheimers disease; Amphetamine addiction; Amyotrophic lateral sclerosis (ALS); Axon guidance; CREB phosphorylation through the activation of CaMKII; CREB phosphorylation through the activation of Ras;
Function	D2 dopamine receptor binding; N-methyl-D-aspartate selective glutamate receptor activity; beta-catenin binding; calcium channel activity; cation channel activity; cell adhesion molecule binding; drug binding; extracellular-glutamate-gated ion channel activity; glycine binding; interleukin-1 receptor binding; ionotropic glutamate receptor activity; ionotropic glutamate receptor binding; neurotransmitter binding; protein binding; protein heterodimerization activity; receptor binding; zinc ion binding;

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