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Product datasheet for AP23268PU-N

NMDAR2B (GRIN2B) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: At 1-2µg/ml with the appropriate system to detect NMDAR2B in cells and tissues. Immunohistochemistry on paraffin sections: At 0.5-1.0 µg/ml to detect NMDAR2B in formalin fixed and paraffin embedded tissues. Immunocytochemistry.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide mapping at the N-terminus of NMDAR2B of human origin
Specificity:	This antibody detects NMDAR2B at N-term. No cross reactivity with other proteins.
Formulation:	50% glycerol, 0.9mg NaCl, 0.2mg Na2HPO4 State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/ml.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glutamate ionotropic receptor NMDA type subunit 2B
Database Link:	Entrez Gene 14812 Mouse Entrez Gene 24410 Rat Entrez Gene 2904 Human Q13224

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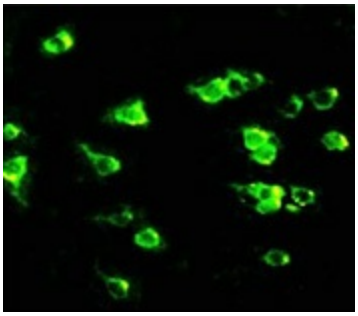
Background: The N-methyl-D-aspartate receptor 2B, also names as GRIN2B. The sequence of the predicted 1,484-amino acid human protein is 98% and 96% identical to the sequences of the rat and mouse Nmdar2b proteins, respectively. Nmdar2B gene is located on mouse chromosome 6 between Rho and Ly49 centromerically and Glb telomerically. Mapping of the human NMDAR2B receptor subunit gene (GRIN2B) to chromosome 12p12 overexpression of NMDA receptor 2B (NR2B) in the forebrains of transgenic mice leads to enhanced activation of NMDA receptors, facilitating synaptic potentiation in response to stimulation at 10-100 Hz.

Synonyms: GRIN2B, NMDA Receptor 2B

Protein Families: Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways: Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Huntington's disease, Long-term potentiation, Neuroactive ligand-receptor interaction, Systemic lupus erythematosus

Product images:



Immunohistochemistry analysis of paraffin-embedded Rat tissue sections (brain), staining NMDAR2B in cytomembrane