

Datasheet for 600-401-P64**NMDAR2B Antibody****Overview**

Description:	Anti-NMDAR2B (RABBIT) Antibody - 600-401-P64
Item No.:	600-401-P64
Size:	100 µg
Applications:	WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

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. This antibody is suitable for researchers interested in neuroscience research.
Synonyms:	Glutamate [NMDA] receptor subunit epsilon-2,N-methyl D-aspartate receptor subtype 2B,
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GRIN2B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	NMDAR2B affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a sequence at the C-terminal of human NMDAR2B.

Purity/Specificity: Anti-NMDAR2B antibody is directed against human NMDAR2B protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, mouse, and rat based on 100% homology for the immunogen sequence. Cross reactivity with NMDAR2B from other sources has not been determined.

Relevant Links:

- [UniProtKB - Q13224](#)
- [GeneID - 2904](#)
- [NCBI - NP_000825.2](#)

Application Details

Tested Applications: WB

Application Note: Anti-NMDAR2B is tested for Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~166.4 kDa corresponding to the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: 0.5µg/mL

Formulation

Physical State: Lyophilized

Concentration: 0.5 mg/mL by UV absorbance at 280 nm

Buffer: 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃

Preservative: 0.05mg Thimerosal

Stabilizer: 5mg BSA

Reconstitution Volume: 100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

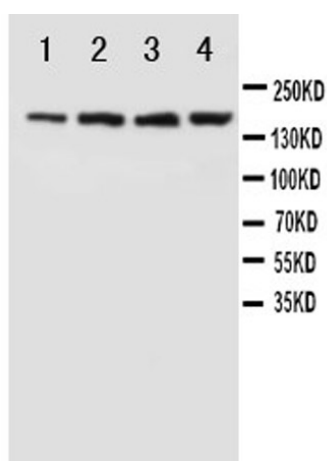
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blotting of Anti-NMDAR2B antibody.

Lane 1: Rat Brain Tissue Lysate, Lane 2: Rat Brain Tissue Lysate, Lane 3: Mouse Brain Tissue Lysate, Lane 4: Mouse Brain Tissue Lysate.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.