

Datasheet: 6870-1109 **BATCH NUMBER 171110**

Description:	RABBIT ANTI RAT NMDA RECEPTOR NR2B
Specificity:	NMDAR NR2B
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	10 µg

Product Details

Applications

Stabilisers

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen				1/1000 - 1/2000
Immunoprecipitation	•			
Western Blotting				

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Rat		
Species Cross	Reacts with: Mouse, Human, Fish		
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publication personal communications from the originators. Please refer to references indicate further information.		
Product Form	Purified IgG - lyophilized		
Reconstitution	Reconstitute with 50µl of Phosphate buffered saline		
Preparation	Purified IgG prepared by affinity chromatography		
Preservative	None present		

Immunogen	C-terminal fusion protein of Rat NMDAR2B (30kDa) corresponding to amino acids 984-1104.
External Database Links	UniProt: Q00960 Related reagents Entrez Gene: 24410 Grin2b Related reagents
RRID	AB_620698
Specificity	Rabbit anti Rat NMDA Receptor NR2B antibody recognizes the ~180 kDa 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).
Histology Positive Control Tissue	Hippocampus.
References	1. Grosshans, D.R. and Browning, M.D. (2001) Protein kinase C activation induces tyrosine phosphorylation of the NR2A and NR2B subunits of the NMDA receptor. J. Neurochem. 76: 737-44. 2. Asaka, Y. et al. (2006) Hippocampal synaptic plasticity is impaired in the Mecp2-null mouse model of Rett syndrome. Neurobiol Dis. 21: 217-27. 3. Maliszewska-Cyna, E. et al. (2010) Diminished prevalence but preserved synaptic distribution of N-methyl-D-aspartate receptor subunits in the methyl CpG binding protein 2(MeCP2)-null mouse brain. Neuroscience. 168: 624-32
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10305 available at: https://www.bio-rad-antibodies.com/SDS/6870-1109 10305
Regulatory	For research purposes only
Technical Advice	3 μl of antibody will quantitatively immunoprecipitate all NMDAR2B in 200 μg of rat brain.

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) FITC

Goat Anti Rabbit IgG (H/L) (STAR124...) HRP

Goat Anti Rabbit IgG (Fc) (STAR121...) Biotin, FITC, HRP

Sheep Anti Rabbit IgG (STAR35...) RPE

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411736:221104'

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