

Datasheet: 6870-1109

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

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 Reactivity	Reacts with: Mouse, Human, Fish N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 50µl of Phosphate buffered saline
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Ammonium bicarbonate
Preservative Stabilisers	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](#)

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	<ol style="list-style-type: none"> 1. Maliszewska-Cyna, E. <i>et al.</i> (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 2. Asaka, Y. <i>et al.</i> (2006) Hippocampal synaptic plasticity is impaired in the Mecp2-null mouse model of Rett syndrome. Neurobiol Dis. 21: 217-27. 3. 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.
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>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.</p>
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet Documentation #10122 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10122.pdf</p>
Regulatory	For research purposes only
Technical Advice	3 µl of antibody will quantitatively immunoprecipitate all NMDAR2B in 200 µg of rat brain. Optimal working dilutions must be determined by the end user.

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com
'M279041:160115'

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

Printed on 21 Mar 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)