

Datasheet: AHP989

Description:	RABBIT ANTI NMDA RECEPTOR/NR1 SUBUNIT/SPLICE VARIANT C2
Specificity:	NMDAR/NR1/C2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	25 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
Flow Cytometry			■	
Immunohistology - Frozen	■			1/1000 - 1/2000
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			1/1000

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	<p>Reacts with: Mouse</p> <p>Based on sequence similarity, is expected to react with: Human</p> <p>N.B. Antibody reactivity and working conditions may vary between species.</p>
Product Form	Purified IgG - lyophilised
Reconstitution	<p>Reconstitute with 50 µl phosphate buffered saline. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.</p> <p>For long term storage the addition of 0.09% sodium azide is recommended.</p> <p>N.B. For functional studies do not add azide.</p>
Antiserum Preparation	Antisera to rat NMDA receptor, NR1 subunit, splice variant C2 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Preservative Stabilisers	None present

Immunogen	Synthetic peptide from rat NMDA receptor NR1 subunit, containing the C2 splice variant insert.
External Database Links	<p>UniProt:</p> <p>P35439 Related reagents</p> <p>P35438 Related reagents</p> <p>Entrez Gene:</p> <p>24408 Grin1 Related reagents</p> <p>14810 Grin1 Related reagents</p>
Synonyms	Glurz1, Nmdar1
Specificity	<p>Rabbit anti NMDA Receptor/NR1 subunit/splice variant C2 antibody recognizes the ~120 kDa NR1 subunit of the NMDA (N-methyl-D-aspartate) receptor, containing the C2 splice variant insert. This antibody does not recognize the NR1 subunit, where the C2 splice variant insert is absent.</p> <p>Receptors for NMDA (NMDAR) belong to a group of ionotropic glutamate receptors which play a key role in the mediation of glutamate neurotransmission within the mammalian central nervous system (CNS), including involvement in memory and learning processes. Properties of NMDAR include modulation by glycine, inhibition by Zn²⁺, voltage-dependent Mg²⁺ blockade and high Ca²⁺ permeability.</p> <p>The NR1 subunit has eight splice variants, arising from either the deletion or insertion of three exon cassettes within the C-terminal (C1, C2) and N-terminal (N1) NR1 domains. These splice variants differ in both their expression and pharmacological properties.</p>
Further Reading	<ol style="list-style-type: none"> Ishii, T. <i>et al.</i> (1993) Molecular characterization of the family of the N-methyl-D-aspartate receptor subunits. J Biol Chem. 268 (4): 2836-43. Ehlers, M.D. <i>et al.</i> (1998) Splice variant-specific interaction of the NMDA receptor subunit NR1 with neuronal intermediate filaments. J Neurosci. 18 (2): 720-30.
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. Avoid repeated freezing and thawing as this may denature the antibody.</p> <p>This product should be stored undiluted. 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 #10043 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10043.pdf</p>
Regulatory	For research purposes only

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 \(STAR209P\)](#)

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