

Datasheet: AHP991

Description:	RABBIT ANTI NMDA RECEPTOR/NR1 SUBUNIT/SPLICE VARIANT N1	
Specificity:	NMDAR/NR1/N1	
Format:	Purified	
Product Type:	Polyclonal Antibody	
Isotype:	Polyclonal IgG	
Quantity:	25 µg	

Product Details

Applications	This product has been repo	orted to wo	ork in the fo	llowing applications. This	s 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					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry					
	Immunohistology - Frozen	-			1/1000 - 1/2000	
	Immunohistology - Paraffin			•		
	ELISA			•		
	Immunoprecipitation			•		
	Western Blotting	•			1/1000	
	Where this antibody 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 antibody for use in their own system using appropriate					
	negative/positive controls.		ie antibeay		om donig appropriato	
	negative/positive controls.					
Target Species	Rat					
Species Cross	Reacts with: Mouse					
Reactivity	Based on sequence similarity, is expected to react with:Human, Chicken, Monkey, Dog, Xenopus					
	N.B. Antibody reactivity and working conditions may vary between species.					
Product Form	Purified IgG - lyophilised					
Reconstitution	Reconstitute with 50ul phosphate buffered saline (PBS).					
	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.					
Antiserum Preparation	Antisera to rat NMDA rece	ptor, NR1 s	subunit, spl	ice variant N1 were raise	ed 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 I	NMDA rece	eptor NR1 s	subunit, containing the N	1 splice variant insert.	

External Database Links	UniProt:P35439Related reagentsP35438Related reagentsEntrez Gene:24408Grin1Related reagents14810Grin1Related reagents		
Synonyms	Glurz1, Nmdar1		
Specificity	 Rabbit anti Rat NMDA Receptor/NR1 Subunit/Splice Variant N1 antibody recognizes the 120 kDa NR1 subunit of the NMDA (N-methyl-D-aspartate) receptor, containing the N1 splice variant insert. Rabbit anti Rat NMDA Receptor/NR1 Subunit/Splice Variant N1 antibody does not recognize the NR1 subunit, where the N1 splice variant insert is absent. 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. 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. 		
Further Reading	 Ishii, T. <i>et al.</i> (1993) Molecular characterization of the family of the N-methyl-D-aspartate receptor subunits. <u>J Biol Chem. 268 (4): 2836-43.</u> Ehlers, M.D. <i>et al.</i> (1998) Splice variant-specific interaction of the NMDA receptor subunit NR1 with neuronal intermediate filaments. <u>J Neurosci. 18 (2): 720-30.</u> 		
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.		
Shelf Life	12 months from date of reconstitution.		
Health And Safety Information	Material Safety Datasheet documentation #10043 available at: 10043: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10043.pdf</u>		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (H/L) (STAR124...)HRPGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRP

Biotin DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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