## ANTIBODIES ONLINE

## Datasheet for ABIN372676 anti-NMDA 1 Receptor antibody (Splice Variant C2)

1 Image

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## Overview

Quantity:	25 µg
Target:	NMDA 1 Receptor (NMDA R1)
Binding Specificity:	Splice Variant C2
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NMDA 1 Receptor antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	Peptide from the NR1 subunit, C2 splice variant insert of Rat NMDA Receptor.
lsotype:	lgG
Specificity:	This antibody recognizes the ~120k NR1 subunit of the NMDA Receptor containing the C2 splice variant insert. Does not recognize the NR1 subunits of the NMDA receptor that do not contain the C2 insert.
Cross-Reactivity (Details):	Species reactivity (expected):Human. Species reactivity (tested):Mouse and Rat.
Purification:	Affinity Chromatography.
Target Details	
Target:	NMDA 1 Receptor (NMDA R1)

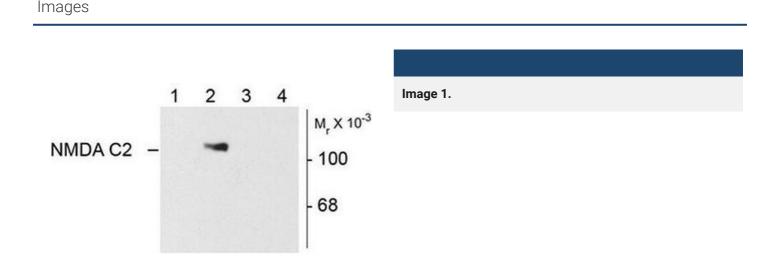
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Target Details		
Alternative Name:	NMDA Receptor 1 (NMDA R1 Products)	
Background:	The ion channels activated by glutamate that are sensitive to N-methyl-D-aspartate (NMDA) are	
	designated NMDA Receptors (NMDAR). The NMDAR plays an essential role in memory,	
	neuronal development and it has also been implicated in several disorders of the central	
	nervous system including Alzheimer's, epilepsy and ischemic neuronal cell death (Grosshans e	
	al., 2002, Wenthold et al., 2003, Carroll and Zukin, 2002). There are a number of different splice	
	variants of the NR1 subunit (Foldes et al., 1994, Zukin and Bennett, 1995). Differential splicing	
	of three exons in the NR1 subunit generates up to eight NR1 subunit splice variants and 7 of	
	these have been identified in cDNA libraries. These exons encode a 21 amino acid N-terminal	
	domain (N1) and adjacent sequences in the C-terminus (C1 and C2). Splicing out the C2	
	cassette eliminates the first stop codon and produces a new reading frame that generates a	
	new sequence of 22 amino acids (C2'). Considerable attention has been focused on the	
	distribution and expression of these splice variants that may affect the functional properties	
	and regulation of the NMDAR.Synonyms: GRIN1, Glutamate [NMDA] receptor subunit zeta-1,	
	NMDAR1	
Gene ID:	24408	
NCBI Accession:	NP_058706	
UniProt:	P35439	
Application Details		
Application Notes:	Western blot: 1/1000. Immunohistochemistry on Frozen Sections: 1/1000-1/2000.	
	Other applications not tested.	
	Optimal dilutions are dependent on conditions and should be determined by the user.	
Restrictions:	For Research Use only	
Handling		
Reconstitution:	Restore in 50 µL PBS (137 mM NaCl, 7.5 mM Na2HPO4, 2.7 mM KCl, 1.5 mM KH2PO4, pH 7.4)	
	before use.	
Buffer:	5 mM Ammonium Bicarbonate.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	-20 °C	
Storage Comment:	Store the antibody undiluted (in aliquots) at-20 °C.	

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Brady, Diaz, Iuso, Everett, Valenzuela, Caldwell: "Moderate prenatal alcohol exposure reduces plasticity and alters NMDA receptor subunit composition in the dentate gyrus." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 33, Issue 3, pp. 1062-7, (2013) (PubMed).

Grosshans, Clayton, Coultrap, Browning: "LTP leads to rapid surface expression of NMDA but not AMPA receptors in adult rat CA1." in: **Nature neuroscience**, Vol. 5, Issue 1, pp. 27-33, (2001) (PubMed).



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