

## Datasheet for ABIN7043233 anti-GRIN3A antibody (Extracellular)

Image



Overview

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Quantity:	50 µL
Target:	GRIN3A
Binding Specificity:	AA 502-516, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIN3A antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	A Rabbit Polyclonal Antibody to NMDA Receptor 3A (GRIN3A)
Immunogen:	Immunogen: Synthetic peptide
	Immunogen Sequence: (C)RHKTHFQHPNKLHLR, corresponding to amino acid residues 502-
	516 of rat NMDAR3A
lsotype:	lgG
Specificity:	Extracellular, N-terminus
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Mouse,human - 14,15 amino acid residues identical
Characteristics:	Anti-NMDAR3A (GRIN3A) (extracellular) Antibody is directed against an extracellular epitope c
	rat NMDA receptor 3A (NR3A). Anti-NMDAR3A (GRIN3A) (extracellular) Antibody

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN7043233 | 07/17/2025 | Copyright antibodies-online. All rights reserved. (ABIN7043233, ABIN7044364 and ABIN7044365) can be used in western blot analysis and has been designed to recognize NR3A from rat, mouse and human samples.

Purification:

Affinity purified on immobilized antigen.

## Target Details

Target:	GRIN3A
Alternative Name:	GRIN3A (GRIN3A Products)
Background:	NR3A, NMDAR-L, GluN3A, Ionotropic glutamate receptor NMDA 3A, N-methyl-D-aspartate
	subunit 3A,The NMDA receptors (NMDARs) are members of the glutamate receptor family of
	ion channels that also include the AMPA and Kainate receptors. The NMDA receptors are
	encoded by seven genes: one NMDAR1 (or NR1) subunit, four NR2 (NR2A-NR2D) and two NR3
	(NR3A-NR3B) subunits. The functional NMDA receptor appears to be a heterotetramer
	composed of two NMDAR1 and two NMDAR2 subunits. Whereas the NMDAR2 subunits that
	assemble with the NMDAR1 subunit can be either of the same kind (i.e. two NMDAR2A
	subunits) or different (one NMDAR2A with one NMDAR2B). NMDAR3 subunits can substitute
	the NMDAR2 subunits in their complex with the NMDAR1 subunit. The NMDAR is unique among
	ligand-gated ion channels in that it requires the simultaneous binding of two obligatory
	agonists: glycine and glutamate that bind to the NMDAR1 and NMDAR2 binding sites
	respectively. Another unique characteristic of the NMDA receptors is their dependence on
	membrane potential. At resting membrane potentials the channels are blocked by extracellular
	Mg2+. Neuronal depolarization relieves the Mg2+ blockage and allows ion influx into the cells.
	NMDA receptors are strongly selective for Ca2+ influx differing from the other glutamate
	receptor ion channels that are non-selective cation channels.Ca2+ entry through the NMDAR
	regulates numerous downstream signaling pathways including long term potentiation (a
	molecular model of memory) and synaptic plasticity that may underlie learning. In addition, the
	NMDA receptors have been implicated in a variety of neurological disorders including epilepsy,
	ischemic brain damage, Parkinson's and Alzheimer's disease. The expression and function of
	NMDA receptors are modulated by a variety of factors including receptor trafficking to the
	synapses and internalization as well as phosphorylation and interaction with other intracellular
	proteins.

Alternative names: NMDAR3A (GRIN3A), NR3A, NMDAR-L, GluN3A, Ionotropic glutamate receptor NMDA 3A, N-methyl-D-aspartate subunit 3A

Gene ID:

191573

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Target Details	
NCBI Accession:	NM_133445
UniProt:	Q9R1M7
Pathways:	Synaptic Membrane
Application Details	
Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody
	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A
	Application Dilutions Western blot wb: 1:200
Comment:	Negative Control: (ABIN7235638)
	Blocking Peptide: (ABIN7235638)
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.
	Upon arrival, it should be stored at -20°C.
	Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.
	For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and
	thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



## Western Blotting

Image 1. Western blot analysis of rat (lanes 1 and 3) andmouse (lanes 2 and 4) brain membranes: - 1,2. Anti-NMDAR3A(GRIN3A)(extracellular)Antibody (ABIN7043233, ABIN7044364 and ABIN7044365),(1:200).3,4.Anti-NMDAR3A(GRIN3A)(extracellular)Antibody,preincubatedwithNMDAR3A/GRIN3A(extracellular)Blocking Peptide (#BLP-GC030).

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