# ANTIBODIES ONLINE

# Datasheet for ABIN7043234 anti-GRIN3B antibody (Extracellular)

2 Images



Overview

Quantity:	50 µL
Target:	GRIN3B
Binding Specificity:	AA 363-376, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIN3B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Purpose:	A Rabbit Polyclonal Antibody to NMDA Receptor 3B (GRIN3B)
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)HVSRHFKVWSLRRD, corresponding to amino acid residues 363-376
	of rat NMDAR3B
lsotype:	lgG
Specificity:	Extracellular, N-terminus
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Mouse - identical, human - 13,14 amino acid residues identical
Characteristics:	Anti-NMDAR3B (GRIN3B) (extracellular) Antibody (ABIN7043234, ABIN7044366 and ABIN7044367) is a highly specific antibody directed against an epitope of the rat NMDA

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 ABIN7043234 | 07/17/2025 | Copyright antibodies-online. All rights reserved. receptor 3B (NR3B). The antibody can be used in western blot and immunohistochemistry applications. The antibody recognizes an extracellular epitope and can potentially be used for detecting the receptor in living cells. It has been designed to recognize NR3B from rat, mouse and human samples.

Purification:

Affinity purified on immobilized antigen.

## Target Details

Target:	GRIN3B
Alternative Name:	GRIN3B (GRIN3B Products)
Background:	NR3B, GluN3B, Ionotropic glutamate receptor NMDA 3B, N-methyl-D-aspartate subunit 3B,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: NMDAR3B (GRIN3B), NR3B, GluN3B, Ionotropic glutamate receptor NMDA 3B, N-methyl-D-aspartate subunit 3B

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Target Details	
Gene ID:	170796
NCBI Accession:	NM_138690
UniProt:	Q8VHN2
Application Details	
Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:100-1:400 Application Dilutions Western blot wb: 1:200
Comment:	Cited Application: ICC Negative Control: (ABIN7235642) Blocking Peptide: (ABIN7235642)
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 mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain lysates: - 1,2. Anti-NMDAR3B (GRIN3B) (extracellular) Antibody (ABIN7043234, ABIN7044366 and ABIN7044367), (1:200).3,4. Anti-NMDAR3B (GRIN3B) (extracellular) Antibody, preincubated with NMDAR3B/GRIN3B (extracellular) Blocking Peptide (#BLP-GC031).

### Immunohistochemistry

**Image 2.** Expression of NR3B in mouse neocortex -Immunohistochemical staining of immersion-fixed, free floating mouse brain frozen sections using Anti-NMDAR3B (GRIN3B) (extracellular) Antibody (ABIN7043234, ABIN7044366 and ABIN7044367), (1:100). NR3B expression (red) is most striking in pyramidal neurons (arrows). DAPI staining of cell nuclei (blue) was used as a general cellular marker.

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