

NMDAR2B Monoclonal Antibody (NR2B)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	NR2B
Conjugate	Unconjugated
Immunogen	Recombinant protein: NR2B subunit of amino acid residues 934-1457.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_560347

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	15 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	1 µg/mL	3 Publications

Product Specific Information

MA1-2014 detects the N-methyl-D-aspartate (NMDA) receptor type 2B in human and mouse samples.

MA1-2014 has been used successfully in Western blot, IHC (P) and immunocytochemistry procedures. In Western blot analysis of mouse brain tissue this antibody detects a ~166 kDa protein representing NMDA receptor type 2B.

The MA1-2014 immunogen is a recombinant protein composed of amino acid residues 934-1457 of the rat NMDA receptor type 2B.

Product Images For NMDAR2B Monoclonal Antibody (NR2B)

NMDAR2B Antibody (MA1-2014) in IHC (P)

Immunohistochemistry analysis of NMDA Receptor 2B showing staining in the cytoplasm and membrane of paraffin-embedded human breast tissue (right) compared with a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a NMDA Receptor 2B monoclonal antibody (Product # MA1-2014) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

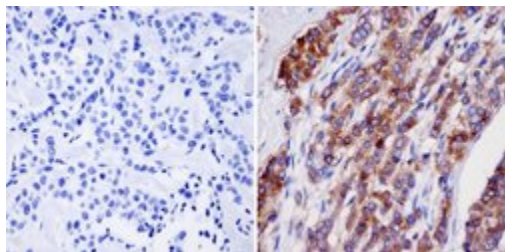


Fig. 1

NR2B



NMDAR2B Antibody (MA1-2014) in WB

Western blot detection of NMDA receptor type 2B in mouse brain tissue using Product # MA1-2014.

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Western Blot (15)

Frontiers in cellular neuroscience

DAPK1 Promotes Extrasynaptic GluN2B Phosphorylation and Striatal Spine Instability in the YAC128 Mouse Model of Huntington Disease.

"Published figure using NMDAR2B monoclonal antibody (Product # MA1-2014) in Western Blot"

Authors: Schmidt ME, Caron NS, Aly AE, Lemarié FL, Dal Cengio L, Ko Y, Lazic N, Anderson L, Nguyen B, Raymond LA, Hayden MR

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in synaptic neuroscience

Altered Regulation of Striatal Neuronal N-Methyl-D-Aspartate Receptor Trafficking by Palmitoylation in Huntington Disease Mouse Model.

"MA1-2014 was used in Western Blotting to study the mechanism of altered GluN2B trafficking in Huntington disease."

Authors: Kang R, Wang L, Sanders SS, Zuo K, Hayden MR, Raymond LA

Species
Mouse

Dilution
1:1,000

Year
2020

[View more WB references on thermofisher.com](#)

Immunohistochemistry (1)

Scientific reports

Overexpression of human NR2B receptor subunit in LMAN causes stuttering and song sequence changes in adult zebra finches.

"MA12014 was used in immunocytochemistry and western blot to propose that N-methyl-D-aspartate subtype 2B glutamate receptor subunit expression in the adult lateral magnocellular nucleus of the anterior nidopallium is important adult courtship song"

Authors: Chakraborty M, Chen LF, Fridel EE, Klein ME, Senft RA, Sarkar A, Jarvis ED

Species
Human

Dilution
1:500

Year
2017

Immunocytochemistry (3)

Journal of neurochemistry

Dopamine D(1) receptor-mediated enhancement of NMDA receptor trafficking requires rapid PKC-dependent synaptic insertion in the prefrontal neurons.

"MA1-2014 was used in Immunocytochemistry to suggest that D(1)-mediated enhancement of NMDA current depends on the NMDA receptor trafficking through rapid synaptic insertion and both PKA and PKC signaling pathways play important roles in the regulatory process."

Authors: Li YC, Liu G, Hu JL, Gao WJ, Huang YQ

Species
Rat

Dilution
Not Cited

Year
2010

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More applications with references on thermofisher.com

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