

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	21 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1 µg/mL	4 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.

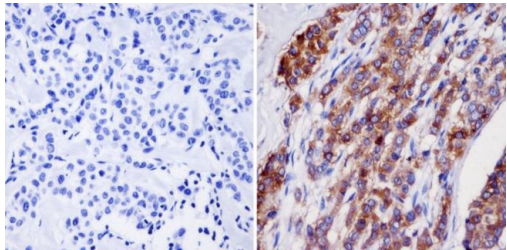


Fig. 1

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 (21)

<p>Frontiers in psychiatry</p> <p>Profiling prefrontal cortex protein expression in rats exhibiting an incubation of cocaine craving following short-access self-administration procedures.</p> <p>"MA1-2014 was used in Western Blotting to highlight Akt1-related signaling within the prelimbic cortex driving incubated cocaine craving, reveal a role for CaMKII-dependent signaling through glutamate receptors in this behavioral phenomenon."</p> <p>Authors: Huerta Sanchez LL,Sankaran M,Li TL,Doan H,Chiu A,Shulman E,Shab G,Kippin TE,Szumliński KK</p>	<p>Year 2023</p> <p>Species Rat</p> <p>Dilution 1:500</p>
<p>Molecular psychiatry</p> <p>A novel bio-inspired strategy to prevent amyloidogenesis and synaptic damage in Alzheimer's disease.</p> <p>"MA1-2014 was used in Antibody array to open the way to an unprecedented and promising approach for the prevention of the disease in humans."</p> <p>Authors: Catania M,Colombo L,Sorrentino S,Cagnotto A,Lucchetti J,Barbagallo MC,Vannetiello I,Vecchi ER,Favagrossa M,Costanza M,Giaccone G,Salmona M,Tagliavini F,Di Fede G</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:500</p>

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

Immunohistochemistry (2)

<p>Cells</p> <p>Inhibition of LRRK2 Attenuates Depression-Related Symptoms in Mice with Moderate Traumatic Brain Injury.</p> <p>"Published figure using NMDAR2B monoclonal antibody (Product # MA1-2014) in Immunohistochemistry"</p> <p>Authors: Filippone A,Cucinotta L,Bova V,Lanza M,Casili G,Paterniti I,Campolo M,Cuzzocrea S,Esposito E</p>	<p>Year 2023</p>
<p>Scientific reports</p> <p>Overexpression of human NR2B receptor subunit in LMAN causes stuttering and song sequence changes in adult zebra finches.</p> <p>"Published figure using NMDAR2B monoclonal antibody (Product # MA1-2014) in Western Blot"</p> <p>Authors: Chakraborty M,Chen LF,Fridel EE,Klein ME,Senft RA,Sarkar A,Jarvis ED</p>	<p>Year 2017</p> <p>Species Human</p> <p>Dilution 1:500</p>

More applications with references on thermofisher.com

- IHC (F) (1)
- ICC/IF (4)

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