

# NMDAR2A Polyclonal Antibody

Product Details	
Size	10 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Fusion protein containing amino acid residues 1253-1391 of the C-terminal region of rat brain subunit 2A
Form	Lyophilized
Purification	IgG fraction
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_2536209

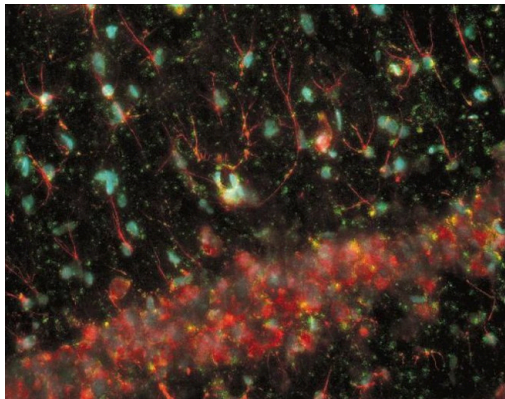
Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:500	17 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:500-1:5,000	-
Immunocytochemistry (ICC/IF)	-	3 Publications
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	3 µL	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

This antibody recognizes the 180 kDa 2A subunit from rat, mouse and human, and does not cross-react with the 2B or 2C subunits.

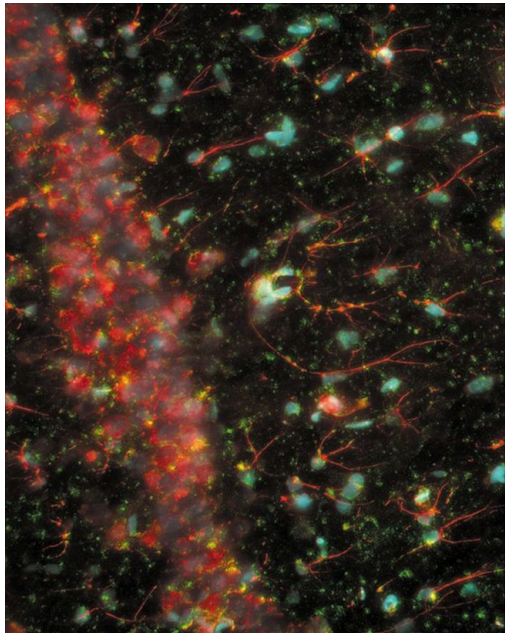
Storage and reconstitution: when stored at -20°C or below, the lyophilized antibody should retain full activity for over one year. Reconstitute using 50 µL PBS, pH 7.4, to yield a 0.2 mg/mL solution. If storing at 0-4°C, add sodium azide to a final concentration of 2mM. For longer storage, divide the solution into aliquots and freeze at -20°C, avoiding freeze/thaw cycles.

Product Images For NMDAR2A Polyclonal Antibody



**NMDAR2A Antibody (A-6473) in IHC (F)**

Immunohistochemistry using NMDA Receptor Subunit 2A Polyclonal Antibody, Rabbit: Rat brain cryosections labeled with anti-NMDA receptor, subunit 2A (rat), rabbit IgG fraction (Product # A-6473) and detected using Alexa Fluor® 488 goat anti-rabbit IgG antibody (Product # A-11008). The tissue was also labeled with Alexa Fluor® 594 anti-glial fibrillary acidic protein antibody (Product # A-21295) and counterstained with TOTO®-3 iodide (Product # T3604), which was pseudocolored light blue in this image.



**NMDAR2A Antibody (A-6473) in IHC (F)**

Immunohistochemistry using NMDA Receptor Subunit 2A Polyclonal Antibody, Rabbit: Rat brain cryosections labeled with anti-NMDA receptor, subunit 2A (rat) antibody, rabbit IgG fraction (Product # A-6473) and detected using Alexa Fluor 488 goat anti-rabbit IgG antibody (Product # A-11008). The tissue was also labeled with Alexa Fluor 594 anti-glial fibrillary acidic protein antibody (Product # A-21295) and counterstained with TOTO-3 iodide (T3604), which was pseudocolored light blue in this image.

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Western Blot (17)

<div>Molecular psychiatry</div> <div>Loss of spines in the prelimbic cortex is detrimental to working memory in mice with early-life adversity.</div> <div>"A-6473 was used in Western Blotting to investigate the impact of early-life adversity (ELA) on dendritic spines, postsynaptic puncta, and glutamatergic transmission in the prelimbic cortex, finding that ELA results in the loss of spines, postsynaptic puncta, and depressed glutamatergic transmission, which contributes to poor spatial working memory, and exciting Thy1-expressing PrL pyramidal cells can improve working memory in ELA mice."</div> <div>Authors: Xu L,Liu Y,Long J,He X,Xie F,Yin Q,Chen M,Long D,Chen Y</div>	<div>Year</div> <div>2023</div> <div>Species</div> <div>Mouse</div> <div>Dilution</div> <div>1:4,000</div>
<div>International journal of molecular sciences</div> <div>Alteration of Ethanol Reward by Prior Mephedrone Exposure: The Role of Age and Matrix Metalloproteinase-9 (MMP-9).</div> <div>"A-6473 was used in Western Blotting to suggest that prior mephedrone exposure differentially alters ethanol reward in adolescent and adult rats."</div> <div>Authors: Grochecki P,Smaga I,Marszalek-Grabska M,Lopatynska-Mazurek M,Slowik T,Gibula-Tarlowska E,Kedzierska E,Listos J,Filip M,Kotlinska JH</div>	<div>Year</div> <div>2022</div> <div>Species</div> <div>Rat</div> <div>Dilution</div> <div>1:1000</div>

View more WB references on thermofisher.cn

Immunohistochemistry (2)

<div>Neuroreport</div> <div>Homocysteine sensitizes the mouse neuromuscular junction to oxidative stress by nitric oxide.</div> <div>"A-6473 was used in Immunohistochemistry-immunofluorescence to show homocysteine acts synergistically with ROS to induce significant decreases in neurotransmission at the NMJ."</div> <div>Authors: Wang JS,Bojovic D,Chen Y,Lindgren CA</div>	<div>Year</div> <div>2018</div> <div>Species</div> <div>Mouse</div>
<div>Brain research</div> <div>Antibody-mediated targeted gene transfer of helper virus-free HSV-1 vectors to rat neocortical neurons that contain either NMDA receptor 2B or 2A subunits.</div> <div>"A-6473 was used in immunohistochemistry to investigate antibody-mediated targeted gene transfer."</div> <div>Authors: Cao H,Zhang GR,Geller AI</div>	<div>Year</div> <div>2011</div> <div>Species</div> <div>Human</div>

More applications with references on thermofisher.cn

- ICC/IF (3)
- IP (1)
- Misc (1)

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