

ARG30131 Postsynaptic Receptor Antibody Panel (NMDAR2A, NMDAR2B, GluR1)

Package: 1 kit
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG52358	anti-NMDAR2A antibody	Rabbit pAb	Ms, Rat, Rb	IHC-Fr, WB	50 µl
ARG52363	anti-NMDAR2B antibody	Rabbit pAb	Ms, Rat	WB	50 µl
ARG52314	anti-GluR1 antibody [RH95]	Mouse mAb	Ms, Rat	WB	50 µl
ARG65350	Goat anti-Mouse IgG antibody (HRP)	Goat pAb	Ms	ELISA, IHC-P, WB	50 µl
ARG65351	Goat anti-Rabbit IgG antibody (HRP)	Goat pAb	Rb	ELISA, IHC-P, WB	50 µl

Summary

Product Description	<p>Synaptic plasticity, the variable efficacy of neurotransmission at synapses, is thought to form the memories. Glutamatergic synapses mediate virtually all excitatory neurotransmission in mammalian brains. Glutamate released from presynaptic terminals activates several types of glutamate-gated ion channels on postsynaptic membranes, including α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptors, consist of subunits GluR1-GluR4, and N-methyl-D-aspartate (NMDA) receptors. Changes in AMPA receptors at the postsynaptic membrane cause changes in synaptic strength, the best-characterized forms of which are long-term potentiation (LTP) and long-term depression (LTD).</p> <p>This antibody panel could be used to investigate the ratio of NMDAR to AMPAR or the change of AMPAR on the postsynaptic membrane. During the LTP, the AMPARs increase expression on the membrane of post-synapse, and the ratio of NMDAR to AMPAR would be higher than the pre-LTP. In construct, LTD decreases the AMPARs expression, and the ratio would be lower than pre-LTD.</p>
Target Name	Postsynaptic Receptor
Alternate Names	Postsynaptic Receptor antibody; GluR1 antibody; NMDAR2A antibody; NMDAR2B antibody

Properties

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

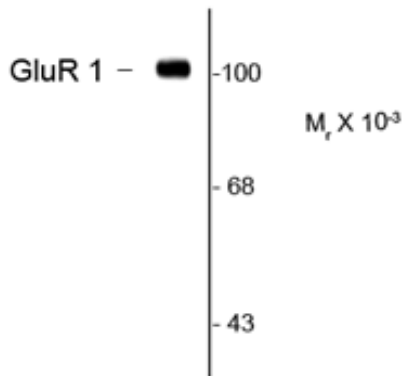
Bioinformation

Gene Full Name	Antibody Panel for Postsynaptic Receptor (NMDAR2A, NMDAR2B, GluR1)
Highlight	Related Product: anti-NMDAR2A antibody

[anti-NMDAR2B antibody:](#)
[anti-GluR1 antibody:](#)

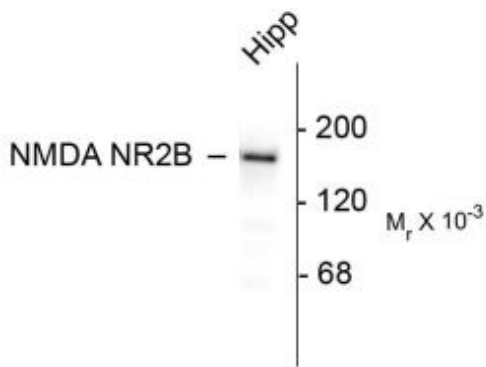
Research Area Immune System antibody; Neuroscience antibody

Images



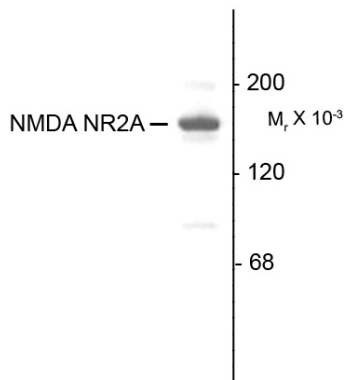
ARG52314 anti-GluR1 antibody [RH95] WB image

Western Blot: rat hippocampal lysate showing specific immunolabeling of the ~105k GluR1 protein stained with GluR1 antibody (ARG52314).



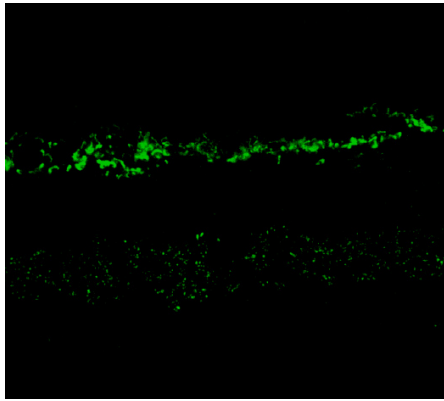
ARG52363 anti-NMDAR2B antibody WB image

Western blot: 10 ug of rat hippocampal (Hipp) lysate stained with ARG52363 anti-NMDAR2B antibody showing specific immunolabeling of the ~180k NR2B subunit of the NMDA receptor.



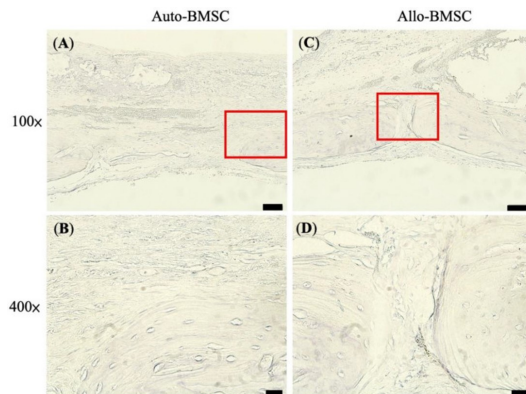
ARG52358 anti-NMDAR2A antibody WB image

Western Blot: 10 µg of Rat hippocampal (Hipp) lysate stained with ARG52358 anti-NMDAR2A antibody showing specific immunolabeling of the ~180 kDa NR2A subunit of the NMDA receptor.



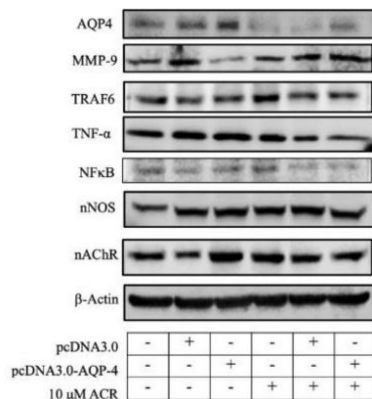
ARG52358 anti-NMDAR2A antibody IHC-Fr image

Immunohistochemistry: Rabbit retina stained with ARG52358 anti-NMDAR2A antibody showing NR2A in the rod and cone photoreceptors in the outer plexiform layer as well as the entire inner plexiform layer.



ARG65350 Goat anti-Mouse IgG antibody (HRP) IHC-P image

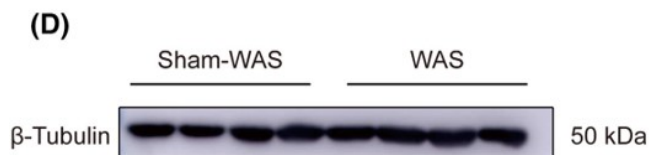
From Cheng-Feng Chu et al. J Pers Med. (2021), [doi: 10.3390/jpm11121326](https://doi.org/10.3390/jpm11121326), Fig. 6.



ARG65350 Goat anti-Mouse IgG antibody (HRP) WB image

Western blot: Neuro-2a stained with [ARG22361 anti-Aquaporin 4 antibody](https://arigo.bio/antibody/ARG22361), [ARG40638 anti-MMP9 antibody](https://arigo.bio/antibody/ARG40638) and ARG65350 Goat anti-Mouse IgG antibody (HRP).

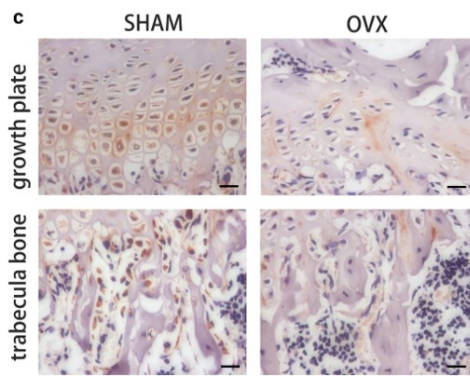
From Hung CY et al. Molecules (2022), [doi: 10.3390/molecules27031066](https://doi.org/10.3390/molecules27031066), Fig. 6A.



ARG65350 Goat anti-Mouse IgG antibody (HRP) WB image

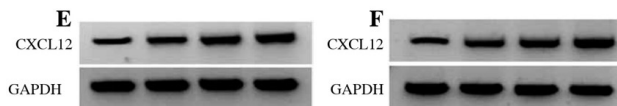
Western blot: Rat basolateral amygdala stained with [ARG62347 anti-beta Tubulin antibody \[BT7R\]](https://arigo.bio/antibody/ARG62347) at 1:1000 dilution, ARG65350 Goat anti-Mouse IgG antibody (HRP) at 1:5000 dilution.

From Guang-Bing Duan et al. CNS Neurosci Ther. (2024), [doi: 10.1111/cns.14611](https://doi.org/10.1111/cns.14611), Fig. 4.D.



ARG65351 Goat anti-Rabbit IgG antibody (HRP) IHC-P image

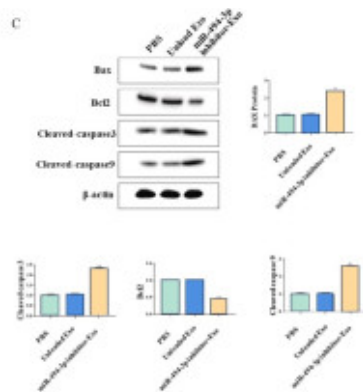
From Yu-Qian Song et al. J Mol Med (Berl) (2022), [doi: 10.1007/s00109-021-02165-0](https://doi.org/10.1007/s00109-021-02165-0), Fig. 5.c.



ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: HK2 stained with [ARG66421 anti-CXCL12 / SDF1 antibody \[SQab18123\]](#) and [ARG10112 anti-GAPDH antibody \[6C5\]](#) and secondary antibody used ARG65351 Goat anti-Rabbit IgG antibody (HRP).

From Zhou Y et al. Central European Journal of Immunology (2022), [doi: 10.5114/ceji.2022.115628](https://doi.org/10.5114/ceji.2022.115628), Fig. 2. E.



ARG65351 Goat anti-Rabbit IgG antibody (HRP) WB image

Western blot: Gastric cancer cells stained with [ARG66247 anti-Bax antibody](#), [ARG55188 anti-Bcl 2 antibody](#), [ARG57512 anti-Caspase 3 \(cleaved\) antibody](#) and [ARG62346 anti-beta Actin antibody \[BA3R\]](#). Secondary Antibody stained with ARG65351 Goat anti-Rabbit IgG antibody (HRP).

From Limin Zhang et al. Heliyon (2024), [doi: 10.1016/j.heliyon.2024.e30803](https://doi.org/10.1016/j.heliyon.2024.e30803), Fig. 4. C.