

## NMDA (GluN) Receptor Antibody Sampler Kit

<b>Catalog# / Size</b>	899908 / 1 kit
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Please refer to individual product datasheets.
<b>Description</b>	The NMDA (GluN) Receptor Antibody Sampler Kit offers flexibility for sampling and detection of NMDA receptor subunits GluN1, GluN2A and GluN2B. The kit also includes key postsynaptic targets, PSD95 and Shank, to allow protein localization assessment. These antibodies are highly suitable for WB and IHC applications.

### Kit Contents

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Specificity	Format	Clone	Size	Reactivity	Isotype
<a href="#">Anti-NMDAR1</a>	Purified	N308/48	25 µl	Rat, Mouse	Mouse IgG1
<a href="#">Anti-NMDAR2A</a>	Purified	N327/95	25 µl	Mouse, Rat	Mouse IgG2a
<a href="#">Anti-NMDAR2B</a>	Purified	N59/36	25 µl	Human, Mouse, Rat	Mouse IgG2b
<a href="#">Anti-PSD95</a>	Purified	K28/74	25 µl	Rat, Mouse	Mouse IgG1
<a href="#">Anti-Pan-Shank</a>	Purified	N23B/49	25 µg	Human, Mouse, Rat	Mouse IgG1, κ

\* For detailed information about each specificity, please refer to the datasheets of the individual products.

### Product Details

<b>Formulation</b>	Please refer to individual product datasheets of the purified formats for details.
<b>Preparation</b>	All antibodies in this kit were purified by affinity chromatography.
<b>Storage &amp; Handling</b>	Upon receipt, store undiluted at 2-8°C.
<b>Application</b>	<a href="#">WB - Quality tested</a>
<b>Recommended Usage</b>	Each lot of antibodies in this kit is quality control tested by Western blotting. For Western blotting, the suggested uses of these reagents are as follows:  Anti-NMDAR1: 2.0 - 10 µg/ml Anti-NMDAR2A: 10 µg/ml Anti-NMDAR2B: 1.0 - 5.0 µg/ml Anti-PSD95: 5.0 - 10 µg/ml Anti-Pan-Shank: 1.0 - 5.0 µg/ml  It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	For verified or reported applications for these antibodies, please see individual product datasheets.

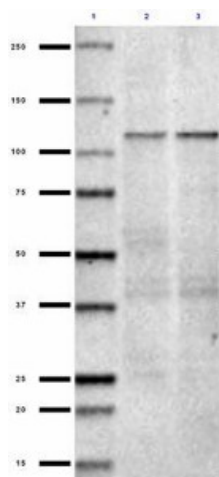
## Antigen Details

<b>Biology Area</b>	Cell Biology, Neuroscience, Synaptic Biology
<b>Molecular Family</b>	Postsynaptic proteins
<b>Gene ID</b>	<a href="#">24408</a> <a href="#">24409</a> <a href="#">24410</a> <a href="#">1742</a> <a href="#">85358</a> <a href="#">22941</a> <a href="#">50944</a>

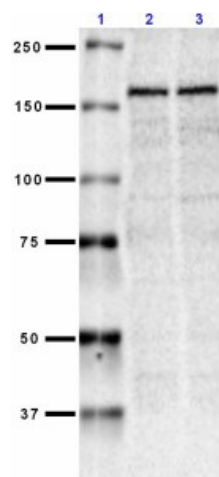
## Related Protocols

[Western Blotting Protocol](#)

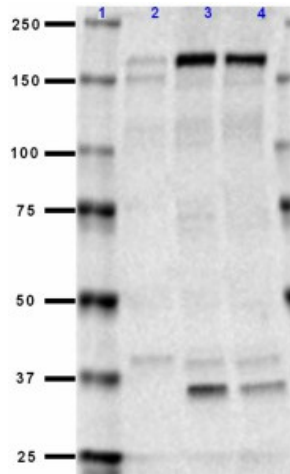
## Product Data



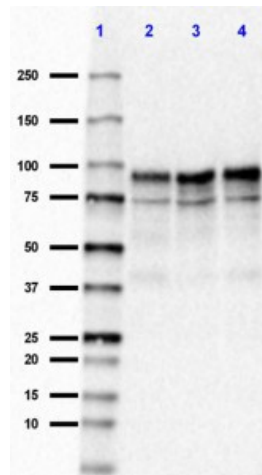
Western blot of purified anti-NMDAR1 antibody (clone N308/48). Lane 1: Molecular weight marker; Lane 2: 20 µg of mouse brain membrane lysate; Lane 3: 20 µg of rat brain membrane lysate. The blot was incubated with 10 µg/ml of the primary antibody overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.



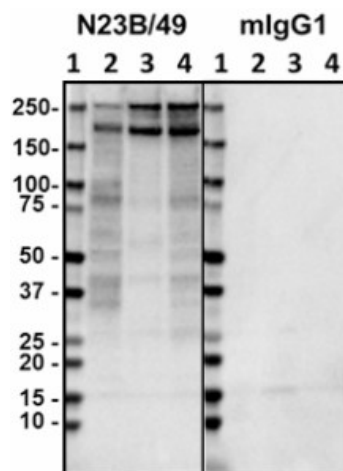
Western blot of purified anti-NMDAR2A antibody (clone N327/95). Lane 1: Molecular weight marker; Lane 2: 20 µg of mouse brain membrane lysate; Lane 3: 20 µg of rat brain membrane lysate. The blot was incubated with 10 µg/mL of the primary antibody overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.



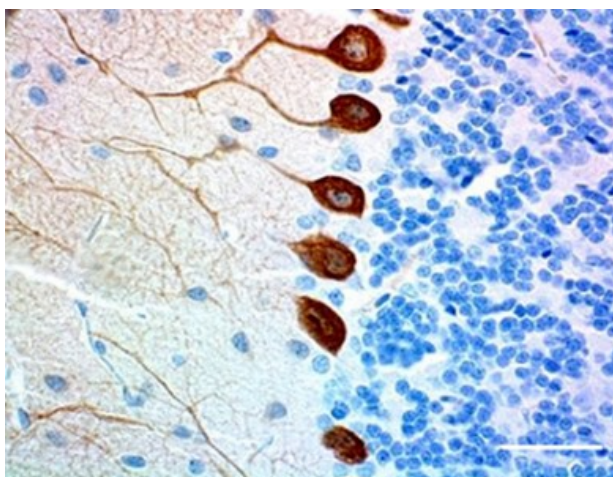
Western blot of purified anti-NMDAR2B antibody (clone N59/36). Lane 1: Molecular weight marker; Lane 2: 30 µg of human brain membrane lysate; Lane 3: 5 µg of mouse brain membrane lysate; Lane 4: 5 µg of rat brain membrane lysate. The blot was incubated with 10 µg/mL of the primary antibodies overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.



Western blot of purified anti-PSD95 antibody (clone K28/74). Lane 1: Molecular weight marker; Lane 2: 10 µg of human brain membrane lysate; Lane 3: 10 µg of mouse brain membrane lysate; Lane 4: 10 µg of rat brain membrane lysate. The blot was incubated with 0.5 µg/mL of the primary antibody overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.



Western blot of purified anti-Pan-Shank antibody (clone N23B/49). Lane 1: Molecular weight marker; Lane 2: 20 µg of human brain lysate; Lane 3: 20 µg of mouse brain lysate; Lane 4: 20 µg of rat brain lysate. The blots were incubated with 5 µg/mL of N23B/49 or mouse IgG1, κ overnight at 4°C, followed by incubation with HRP-labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.



IHC staining of purified anti-Pan-Shank antibody (clone N23B/49) on formalin-fixed paraffin-embedded rat cerebellum tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 5 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm

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