

Purified anti-GluR2 Antibody (Previously Covance catalog# MMS-5144)

Catalog# / Size	810502 / 25 µL 810501 / 100 µL
Clone	L21/32
Regulatory Status	RUO
Other Names	GluA2/GluR2 glutamate receptor, Glutamate receptor 2, GluR2, gluR-2, glutamate receptor B, AMPA-selective glutamate receptor 2
Previously	Covance Catalog# MMS-5144
Isotype	Mouse IgG1, κ
Description	Glutamate receptor 2 (GluR2), also known as glutamate receptor B, is a subunit of AMPA receptors (AMPA receptors) involved in fast excitatory synaptic transmission. GluR2 regulates the permeability of an AMPAR to sodium, potassium, and calcium, and the absence of GluR2 allows AMPARs to be blocked by polyamines.

Product Details

Verified Reactivity	Human, Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a fusion protein corresponding to amino acids 834-883 of rat GluA2/GluR2 glutamate receptor.
Formulation	Phosphate-buffered solution.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
Application	WB - Quality tested IHC-P - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 1.0 - 10 µg per ml. For immunohistochemistry on formalin-fixed paraffin-embedded tissue, a concentration range of 1.0 - 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	It does not cross-react with GluA1/GluR1, GluA3/GluR3, or GluA4/GluR4.
Product Citations	1. Brown EA, <i>et al.</i> 2018. Mol Autism. 9:48. PubMed
RRID	AB_2734564 (BioLegend Cat. No. 810502) AB_2564751 (BioLegend Cat. No. 810501)

Antigen Details

Structure	Expected Molecular Weight: 90 kD
Cell Type	Glutamatergic Neurons
Biology Area	Cell Biology, Neuroscience, Neuroscience Cell Markers, Synaptic Biology

Molecular Family Postsynaptic proteins

Gene ID [29627](#)

Related Protocols

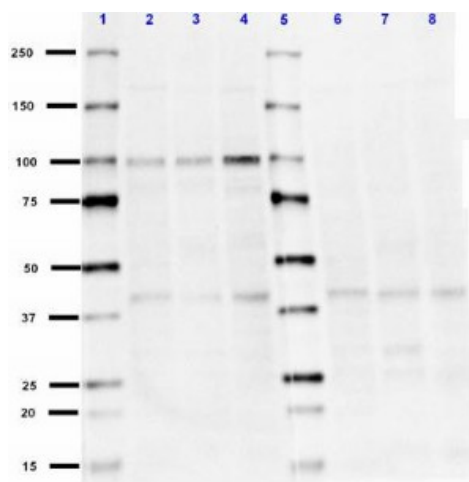
[Western Blotting Protocol](#)

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

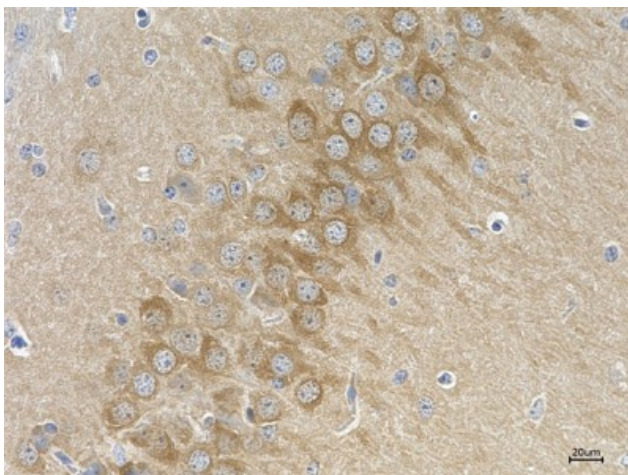
Other Formats

Purified anti-GluR2, Alexa Fluor® 594 anti-GluR2

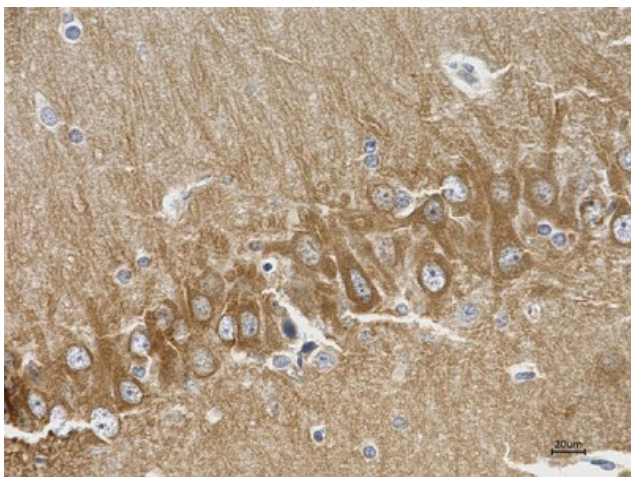
Product Data



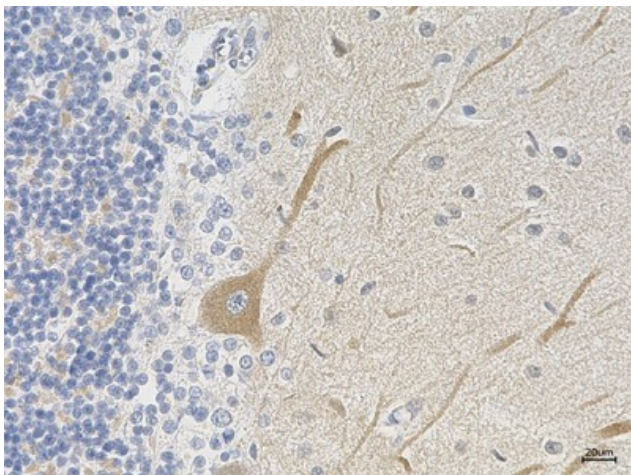
Western blot of purified anti-GluR2 antibody (clone L21/32). Lane 1, 5: Molecular weight marker; Lane 2, 6: 20 μ g of human brain membrane lysate; Lane 3, 7: 20 μ g of mouse brain membrane lysate; Lane 4, 8: 20 μ g of rat brain membrane lysate. The blots were incubated with 10 μ g/mL of clone L21/32 (left) or mouse IgG1 (right) 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 anti-GluR2 antibody (clone L21/32) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 μ g/ml of the primary antibody for 60 minutes at room temperature. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat# 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale Bar: 20 μ m.



IHC staining of anti-GluR2 antibody (clone L21/32) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 μg/ml of the primary antibody for 60 minutes at room temperature. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat# 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale Bar: 20 μm.



IHC staining of anti-GluR2 antibody (clone L21/32) on formalin-fixed paraffin-embedded human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 μg/ml of the primary antibody for 60 minutes at room temperature. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat# 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale Bar: 20 μm.

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