

Datasheet for ABIN3031067
anti-GRIA2 antibody (AA 25-360)

5 Images

1 Publication

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Overview

Quantity:	100 µg
Target:	GRIA2
Binding Specificity:	AA 25-360
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRIA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human partial recombinant protein (AA 25-360) was used as the immunogen for this GLUR2 antibody.
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	GRIA2
Alternative Name:	GLUR2 (GRIA2 Products)
Background:	Glutamate receptor 2, also known as GLUR2, is a protein that in humans is encoded by the GRIA2 gene. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-

Target Details

activated cation channels. The crystal structures of the GLUR2 ligand-binding core in the apo state and in the presence of the antagonist DNQX, the partial agonist kainate, and the full agonists AMPA and glutamate. GLUR2 plays a major role in depression at synapses in which glutamate remains in the synaptic cleft for prolonged periods of time during normal operation of the synapse. Overexpression increases dendritic spine size and density in hippocampal neurons, and more remarkably, induces spine formation in GABA-releasing interneurons that normally lack spines.

Gene ID: 14800

Pathways: [PI3K-Akt Signaling](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the GLUR2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL, IHC (Paraffin): 0.5-1 µg/mL

Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

Storage Comment: After reconstitution, the GLUR2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

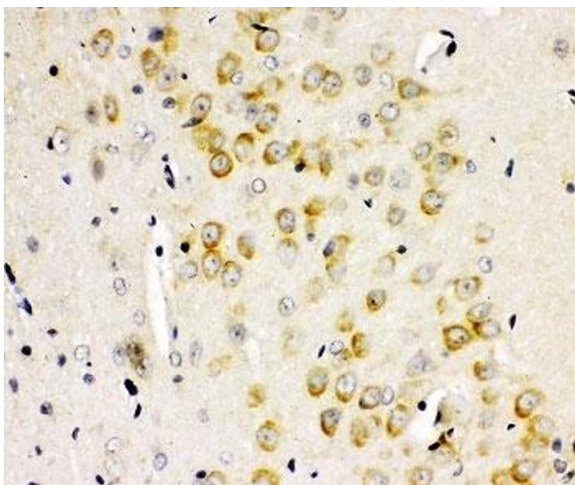
Publications

Product cited in: Liu, Woo, Bukhari, Wang, Yan, Buosi, Ermekbaeva, Sista, Kotsiviras, LePochat, Chacko, Zhao, Kang: "Modulation of synaptic plasticity, motor unit physiology, and TDP-43 pathology by CHCHD10." in: **Acta neuropathologica communications**, Vol. 10, Issue 1, pp. 95, (2022) ([PubMed](#)).



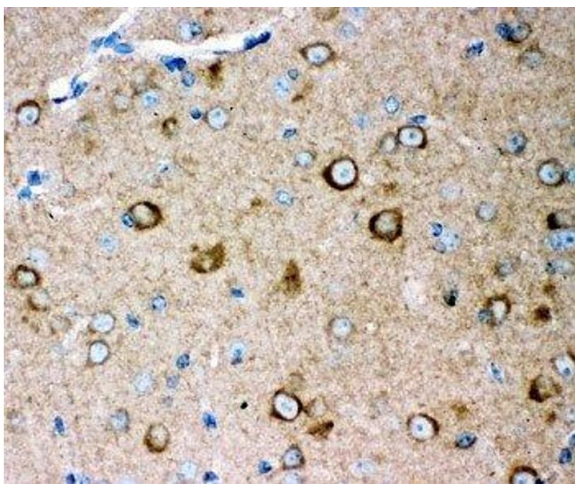
Western Blotting

Image 1. Western blot testing of GLUR2 antibody and Lane 1: rat brain; 2: mouse brain lysate. Predicted/observed size ~99KD



Immunohistochemistry

Image 2. IHC-P: GLUR2 antibody testing of rat brain tissue



Immunohistochemistry

Image 3. IHC-P: GLUR2 antibody testing of mouse brain tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3031067.