

Datasheet for ABIN3043838
anti-GRIA2 antibody (AA 25-360)[Go to Product page](#)

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Overview

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

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Glutamate receptor 2(GRIA2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human GRIA2 recombinant protein (Position: N25-I360). Human GRIA2 shares 99% amino acid (aa) sequence identity with both mouse and rat GRIA2.
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: human</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	<p>Rabbit IgG polyclonal antibody for Glutamate receptor 2(GRIA2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: glutamate receptor, ionotropic, AMPA 2</p>

Product Details

Protein Name: Glutamate receptor 2

Purification: Immunogen affinity purified.

Target Details

Target: GRIA2

Alternative Name: GRIA2 ([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-activated cation channels. GLUR2's cytogenetic location is 4q32.1. 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. The overexpression of GLUR2 increases dendritic spine size and density in hippocampal neurons, and more remarkably, induces spine formation in GABA-releasing interneurons that normally lack spines.

Synonyms: AMPA 2 antibody|AMPA selective glutamate receptor 2 antibody|AMPA-selective glutamate receptor 2 antibody|AMPA2 antibody|GluA2 antibody|GLUR 2 antibody|GLUR B antibody|GluR K2 antibody|GluR-2 antibody|GluR-B antibody|GluR-K2 antibody|GLUR2 antibody|GLURB antibody|Glutamate receptor 2 antibody|Glutamate receptor ionotropic AMPA 2 antibody|Glutamate receptor ionotropic antibody|Gria2 antibody|GRIA2_HUMAN antibody|HBGR2 antibody

Gene ID: 14800

UniProt: [P42262](#)

Pathways: [PI3K-Akt Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, The detection limit for GRIA2 is approximately 0.25 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Application Details

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

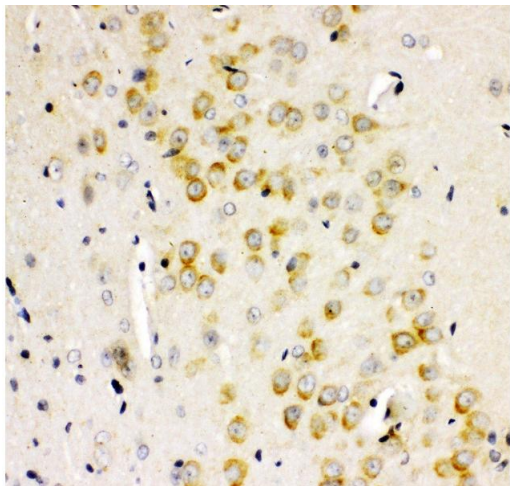
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

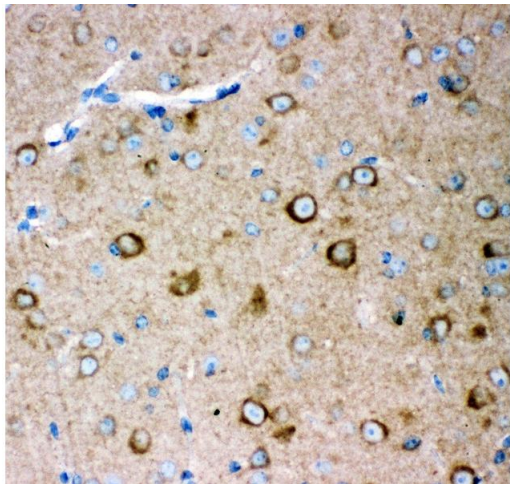
Publications

Product cited in: Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) ([PubMed](#)).



Immunohistochemistry

Image 1. Anti- GRIA2 antibody, IHC(P) IHC(P): Rat Brain Tissue



Immunohistochemistry

Image 2. Anti- GRIA2 antibody, IHC(P) IHC(P): Mouse Brain Tissue



Western Blotting

Image 3. Anti- GRIA2 antibody, Western blotting All lanes: Anti GRIA2 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Predicted bind size: 99KD Observed bind size: 99KD