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Datasheet for ABIN3043837

## anti-Glutamate Receptor 1 antibody (AA 19-360)

5 Images

1 Publication

### Overview

Quantity:	100 µg
Target:	Glutamate Receptor 1 (GLUR1)
Binding Specificity:	AA 19-360
Reactivity:	Human, 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 1(GRIA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human GRIA1 recombinant protein (Position: A19-R360). Human GRIA1 shares 98% amino acid (aa) sequence identity with both mouse and rat GRIA1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Glutamate receptor 1(GRIA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: glutamate receptor, ionotropic, AMPA 1 Protein Name: Glutamate receptor 1
Purification:	Immunogen affinity purified.

## Target Details

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Target: Glutamate Receptor 1 (GLUR1)

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Alternative Name: GRIA1 ([GLUR1 Products](#))

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Background: GLUR1, Glutamate receptor 1, is a protein that in humans is encoded by the GLUR1 gene. GLUR1 mRNA is widely expressed in human brain. Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The GRIA1 belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Each of the members (GRIA1-4) include flip and flop isoforms generated by alternative RNA splicing. The receptor subunits encoded by each isoform vary in their signal transduction properties. The isoform presented here is the flop isoform. In situ hybridization experiments showed that human GRIA1 mRNA is present in granule and pyramidal cells in the hippocampal formation.

Synonyms: GLUR 1 antibody|GLUR A antibody|AMPA 1 antibody|AMPA selective glutamate receptor 1 antibody|AMPA-selective glutamate receptor 1 antibody|GluA1 antibody|GLUH 1 antibody|GLUH1 antibody|GluR K1 antibody|GluR-1 antibody|GluR-A antibody|GluR-K1 antibody|GLUR1 antibody|GLURA antibody|GluRK1 antibody|Glutamate receptor 1 antibody|Glutamate receptor ionotropic AMPA 1 antibody|Glutamate receptor ionotropic antibody|Glutamate receptor, ionotropic, AMPA 1 antibody|Gria 1 antibody|Gria1 antibody|GRIA1\_HUMAN antibody|HBGR1 antibody|MGC133252 antibody|OTTHUMP00000160643 antibody|OTTHUMP00000165781 antibody|OTTHUMP00000224241 antibody|OTTHUMP00000224242 antibody|OTTHUMP00000224243 antibody

Gene ID: 2890

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UniProt: [P42261](#)

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Pathways: [PI3K-Akt Signaling](#)

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## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for GRIA1 is approximately 0.25 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, 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.

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## Application Details

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Notes: Tested Species: Species with positive results. 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

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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 Na<sub>2</sub>HPO<sub>4</sub>, 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

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Product cited in: Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: **Biochemical and biophysical research communications**, Vol. 488, Issue 1, pp. 109-115, (2017) ([PubMed](#)).

Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog *Rana catesbeiana* during periods of activity and hibernation." in: **Acta histochemica**, Vol. 116, Issue 8, pp. 1418-26, (2014) ([PubMed](#)).

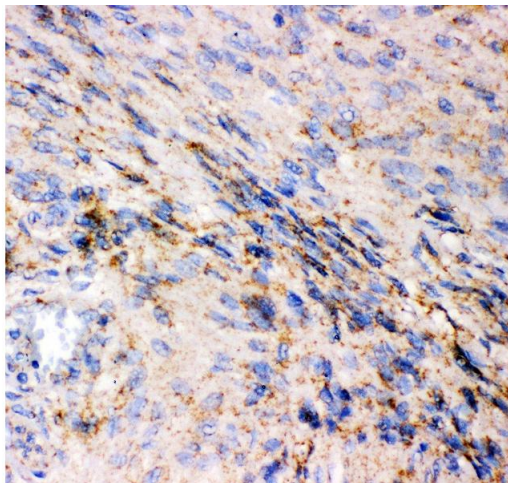
Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (*Struthio camelus*)." in: **Tissue & cell**,

Vol. 45, Issue 6, pp. 363-6, (2013) ([PubMed](#)).

Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) ([PubMed](#)).

Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) ([PubMed](#)).

## Validation report #300031 for Immunohistochemistry (IHC)



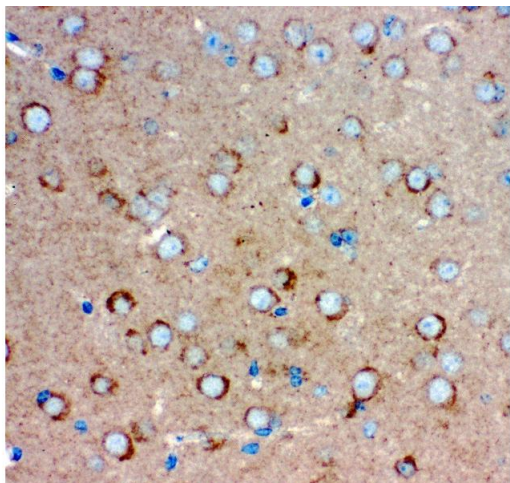
### Immunohistochemistry

**Image 1.** Anti- GRIA1 antibody, IHC(P) IHC(P): Human Meningeoma Tissue



### Western Blotting

**Image 2.** Anti- GRIA1 antibody, Western blotting All lanes: Anti GRIA1 at 0.5ug/ml WB: Recombinant Human GRIA1 Protein 0.5ng Predicted bind size: 40KD Observed bind size: 40KD



### Immunohistochemistry

**Image 3.** Anti- GRIA1 antibody, IHC(P) IHC(P): Mouse Brain Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043837.