

Datasheet for ABIN1385842  
**anti-GluR1, GluR2 antibody (AA 141-240)**



[Go to Product page](#)

3 Images

2 Publications

## Overview

Quantity:	100 µL
Target:	GluR1, GluR2 (GRIA1/2)
Binding Specificity:	AA 141-240
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GluR1, GluR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GluR1
Isotype:	IgG
Specificity:	Due to the similarity of this protein to GluR2, there is a chance that this antibody will react with this protein based on homology.
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog,Cow,Horse
Purification:	Purified by Protein A.

## Target Details

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Target: GluR1, GluR2 (GRIA1/2)

Alternative Name: GluR1, GluR2 ([GRIA1/2 Products](#))

Background: Synonyms: GLUH1, GLUR1, GLURA, GluA1, HBGR1, Glutamate receptor 1, GluR-1, AMPA-selective glutamate receptor 1, GluR-A, GluR-K1, Glutamate receptor ionotropic, AMPA 1, GRIA1  
Background: Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

Gene ID: 2890

UniProt: [P42261](#)

## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200  
ICC 1:100-500

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

## Handling

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

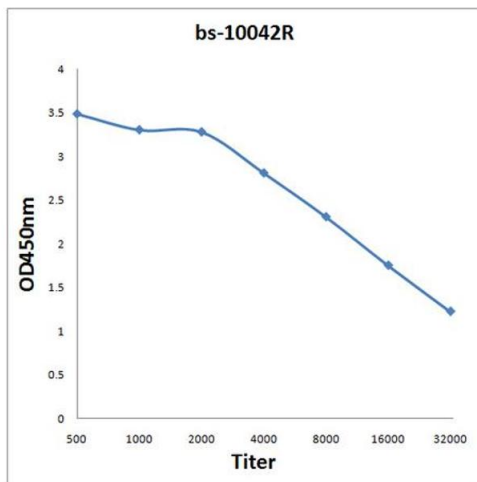
Expiry Date: 12 months

## Publications

Product cited in: Ku, Li, Gao, Zhang, Yan, Ji, Li, Sang: "NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM2.5 aspiration." in: **Particle and fibre toxicology**, Vol. 14, Issue 1, pp. 34, (2018) ([PubMed](#)).

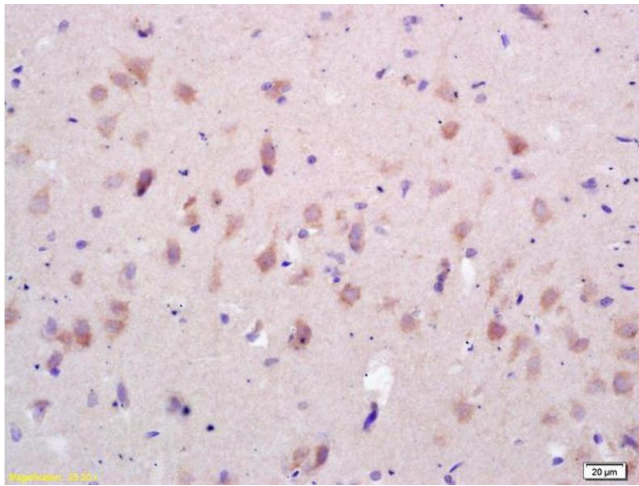
Zhang, Zhang, Li, Xu, Chu, Chen, Chen: "Antioxidant and anti-excitotoxicity effect of Gualou Guizhi decoction on cerebral ischemia/reperfusion injury in rats." in: **Experimental and therapeutic medicine**, Vol. 9, Issue 6, pp. 2121-2126, (2015) ([PubMed](#)).

## Images



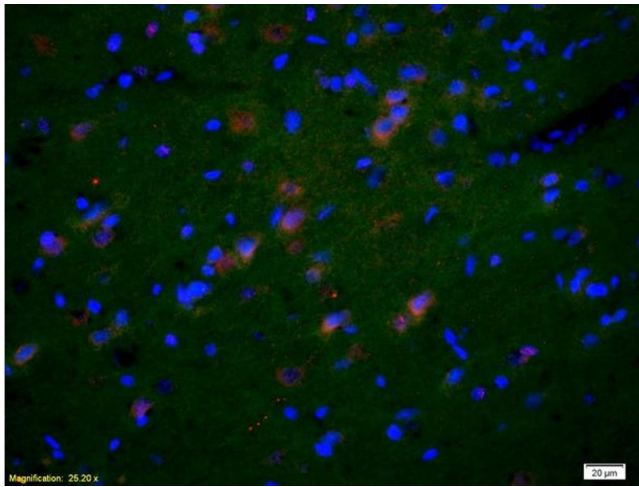
### ELISA

**Image 1.** Antigen: 2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Rabbit Anti-Goat IgG at 1: 5000; TMB staining Read the data in Microplate Reader by 450nm.



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti GluR1/AMPA Polyclonal Antibody, Unconjugated (ABIN1385842) at 1:200 followed by conjugation to the secondary antibody and DAB staining



### Immunofluorescence

**Image 3.** Formalin-fixed and paraffin-embedded rat brain labeled with Anti-GluR1/AMPA Polyclonal Antibody, Unconjugated (ABIN1385842) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.