

For Research Use Only

# GRID1 Polyclonal antibody

Catalog Number: 13040-1-AP

1 Publications



## Basic Information

### Catalog Number:

13040-1-AP

### Size:

150ul, Concentration: 160 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3694

### GenBank Accession Number:

BC039263

### GeneID (NCBI):

2894

### UNIPROT ID:

Q9ULK0

### Full Name:

glutamate receptor, ionotropic, delta 1

### Calculated MW:

1009 aa, 112 kDa

### Observed MW:

100-112 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

IF

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

### Positive Controls:

WB : human brain tissue,

IP : mouse brain tissue,

IHC : human gliomas tissue, human brain tissue, mouse brain tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

GRID1 (Glutamate Ionotropic Receptor Delta Type Subunit 1) is a protein-coding gene that belongs to the family of ionotropic glutamate receptors. These receptors are crucial for rapid excitatory synaptic transmission and synaptic plasticity in the central nervous system. GRID1 is primarily expressed in various brain regions, including the cortex, hippocampus, amygdala, striatum, thalamus, nucleus accumbens, lateral hooked nucleus, and dorsal raphe nucleus. In the hippocampus, GRID1 is specifically expressed in the granule cells of the dentate gyrus.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shao-Yong Song	36752736	Anesthesiology	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

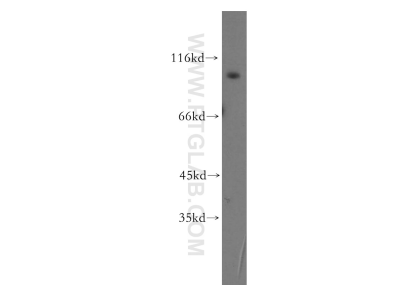
For technical support and original validation data for this product please contact:

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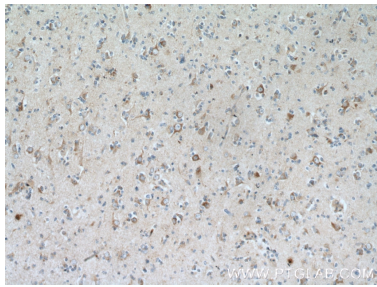
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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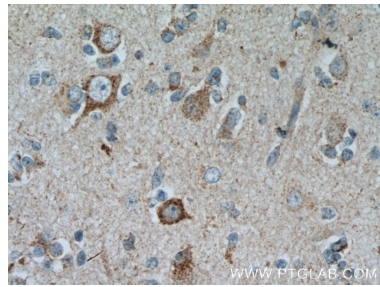
Selected Validation Data



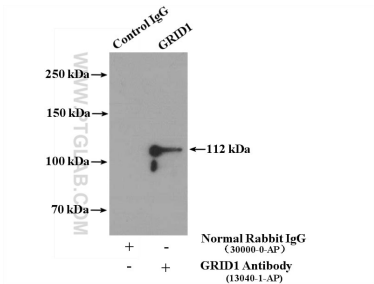
human brain tissue were subjected to SDS PAGE followed by western blot with 13040-1-AP (GRID1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 13040-1-AP (GRID1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 13040-1-AP (GRID1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GRID1 (IP:13040-1-AP, 4ug; Detection:13040-1-AP 1:300) with mouse brain tissue lysate 5600ug.