

For Research Use Only

# GRID2 Polyclonal antibody

Catalog Number: 21727-1-AP



## Basic Information

<b>Catalog Number:</b> 21727-1-AP	<b>GenBank Accession Number:</b> BC099652	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2895	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IHC: 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43424	
<b>Isotype:</b> IgG	<b>Full Name:</b> glutamate receptor, ionotropic, delta 2	
<b>Immunogen Catalog Number:</b> AG16391	<b>Calculated MW:</b> 1007 aa, 113 kDa	
	<b>Observed MW:</b> 113 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse, rat

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

### Positive Controls:

WB : mouse cerebellum tissue, rat cerebellum tissue

IHC : mouse cerebellum tissue,

## Background Information

The GRID2 gene provides instructions for making a protein called the glutamate receptor ionotropic, delta-2 subunit (GluD2). While it belongs to the family of ionotropic glutamate receptors, which are proteins that respond to the neurotransmitter glutamate by opening an ion channel, GluD2 is unique. It is often referred to as an "orphan" receptor because it does not bind glutamate or function as a typical ion channel. Instead, its primary roles are structural and organizational, critical for the development, maintenance, and function of specific synapses in the brain.

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

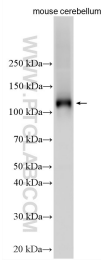
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

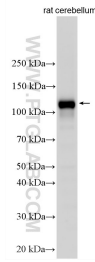
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

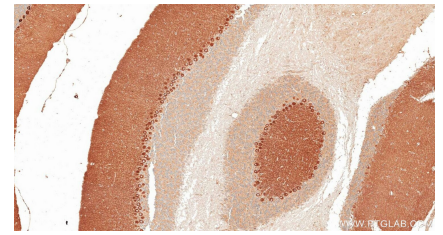
## Selected Validation Data



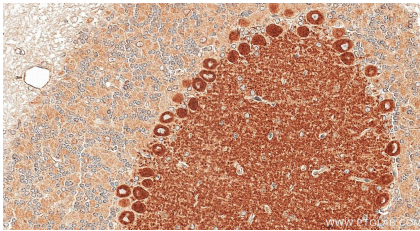
Various lysates were subjected to SDS PAGE followed by western blot with 21727-1-AP (GRID2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 21727-1-AP (GRID2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 21727-1-AP (GRID2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).