

For Research Use Only

# NMDAR2A/GRIN2A Polyclonal antibody



Catalog Number: 19953-1-AP

25 Publications

## Basic Information

### Catalog Number:

19953-1-AP

### Size:

600 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000833

### GeneID (NCBI):

2903

### UNIPROT ID:

Q12879

### Full Name:

glutamate receptor, ionotropic, N-methyl D-aspartate 2A

### Calculated MW:

165 kDa

### Observed MW:

150-160 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:200-1:800

IF 1:10-1:100

## Applications

### Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

### Cited Applications:

IF, IP, WB

### Species Specificity:

human, mouse

### Cited Species:

human, rat, mouse

### Positive Controls:

WB : mouse brain tissue,

IP : mouse brain tissue,

IHC : mouse brain tissue,

IF : HeLa cells,

**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

GRIN2A, also named as NMDAR2A and NR2A, belongs to the glutamate-gated ion channel (TC 1.A.10) family. GRIN2A is NMDA receptor subtype of glutamate-gated ion channels possesses high calcium permeability and voltage-dependent sensitivity to magnesium. Activation of GRIN2A requires binding of agonist to both types of subunits. The antibody recognize the C-term of GRIN2A.

## Notable Publications

Author	Pubmed ID	Journal	Application
Pengcheng Ma	36179027	Sci Adv	WB
Xin Peng	34549339	J Mol Neurosci	WB
Yanke Zhang	27876882	Sci Rep	WB

## 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

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

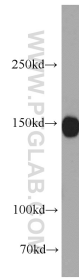
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

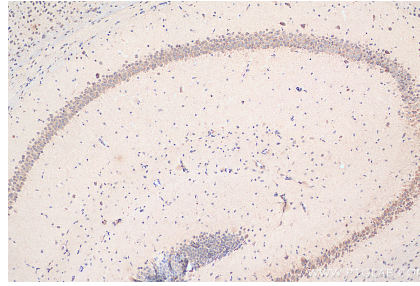
W: [ptgcn.com](http://ptgcn.com)

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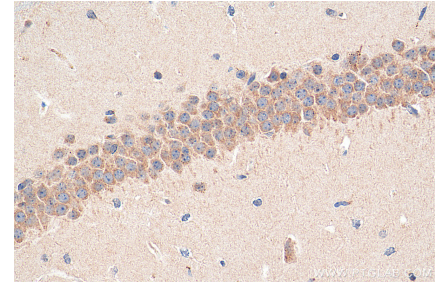
## Selected Validation Data



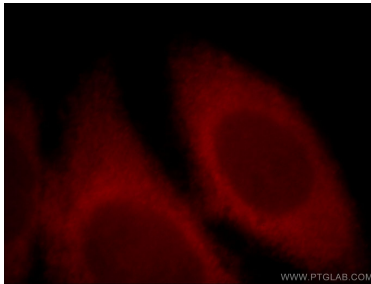
mouse brain tissue were subjected to SDS PAGE followed by western blot with 19953-1-AP (NMDAR2A/GRIN2A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



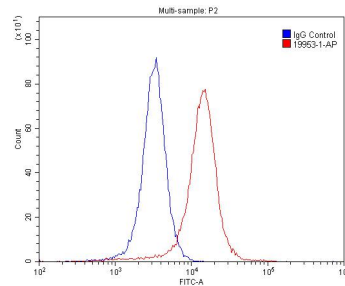
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19953-1-AP (NMDAR2A/GRIN2A antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



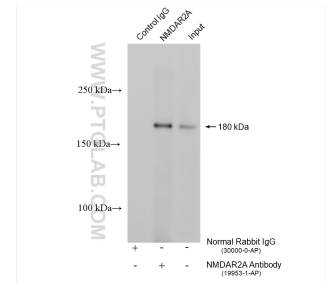
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19953-1-AP (NMDAR2A/GRIN2A antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells, using NMDAR2A/GRIN2A antibody 19953-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



1x10<sup>6</sup> SH-SY5Y cells were stained with 0.2ug NMDAR2A/GRIN2A antibody (19953-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



IP result of anti-NMDAR2A/GRIN2A (IP:19953-1-AP, 4ug; Detection:19953-1-AP 1:600) with mouse brain tissue lysate 1680 ug.