

For Research Use Only

# NMDAR2A/GRIN2A Polyclonal antibody



Catalog Number: 19953-1-AP

19 Publications

## Basic Information

<b>Catalog Number:</b> 19953-1-AP	<b>GenBank Accession Number:</b> NM_000833	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 407 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2903	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:200-1:800 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> glutamate receptor, ionotropic, N-methyl D-aspartate 2A	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 165 kDa	
	<b>Observed MW:</b> 150-160 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, IHC : mouse brain tissue, IF : HeLa cells,
<b>Cited Applications:</b> IF, IP, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> 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**

## 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
Xin Peng	34549339	J Mol Neurosci	WB
Yanke Zhang	27876882	Sci Rep	WB
Juan Yang	32436359	CNS Neurosci Ther	WB,IP

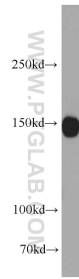
## Storage

**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

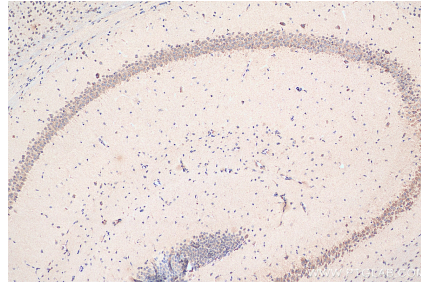
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

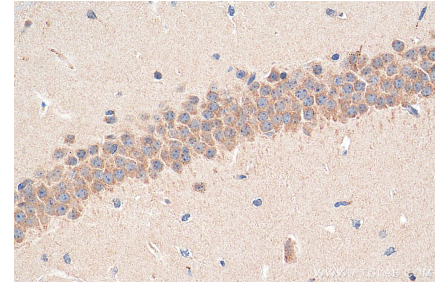
## Selected Validation Data



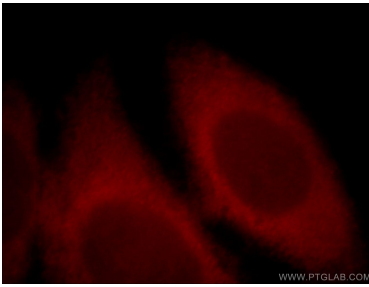
mouse brain tissue were subjected to SDS PAGE followed by western blot with 19953-1-AP (NMDAR2A/GRIN2A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



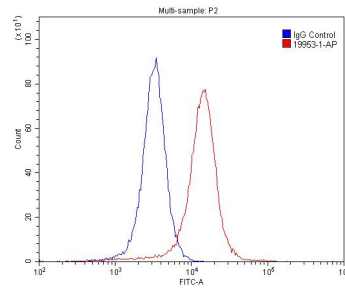
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19953-1-AP (NMDAR2A/GRIN2A antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.