For Research Use Only

NMDAR2B/GRIN2B Polyclonal antibody

Catalog Number:21920-1-AP

Featured Product 109 Publications

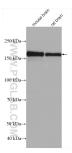


Basic Information	Catalog Number: 21920-1-AP Size: 150ul , Concentration: 550 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG16318	GenBank Accession Nu BC113620 GeneID (NCBI): 2904 UNIPROT ID: Q13224 Full Name: glutamate receptor, ion methyl D-aspartate 2B Calculated MW: 1484 aa, 166 kDa Observed MW: 166 kDa		Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF-P 1:50-1:500
Applications	Tested Applications: WB, IHC, IF-P, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP	tissue		orain tissue, human brain tissue, rat brain
	Species Specificity:		IP : mouse br	<b>,</b>
	human, mouse, rat		IF-P : mouse	brain tissue, human brain tissue brain tissue
	Cited Species: human, mouse, rat, zebra finch	II - P. IIIOUSE		טומווו נוזגעפ,
Background Information	retrieval may be performed with citrate buffer pH 6.0 GRIN2B (also known as GluN2B or NMDAR2B) is a member of the N-methyl-D-aspartate (NMDA) receptor family within the ionotropic glutamate receptor superfamily. NMDA receptors are widely expressed in the central nervous system and play a major role in excitatory synaptic transmission and plasticity (PMID: 23223336). NMDA receptors large multi-subunit complexes arranged into heteromeric assemblies composed of four homologous subunits with a repertoire of over 10 different subunits: eight GluN1 isoforms, four GluN2 subunits (A-D) and two GluN3 subunits i and B) (PMID: 21395862). Naturally occurring mutations within GRIN2B gene are associated with neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder,			
	epilepsy, and schizophrenia.			
Notable Publications	Author Pul	omed ID Journa	l	Application
		179027 Sci Adv		WB
	Qingyang Zhang 34	551807 Mol Ne	urodegener	WB
	Xin Peng 34	549339 J Mol N	eurosci	WB
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50	0% glycerol, pH7.3		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	storage		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com	Gi		exclusively available under Proteintech nd is not available to purchase from any

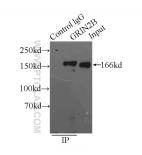
. free in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

not available to purchase from any other manufacturer.

## Selected Validation Data



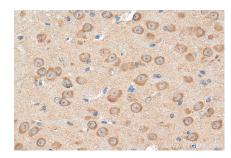
mouse brain tissue were subjected to SDS PAGE followed by western blot with 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



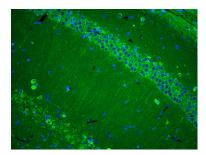
IP result of anti-NMDAR2B/GRIN2B (IP:21920-1-AP, 3ug; Detection:21920-1-AP 1:2000) with mouse brain tissue lysate 6000ug.



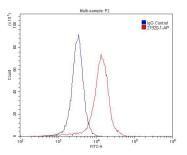
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using NMDAR2B/GRIN2B antibody (21920-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgC(H+1).



1X10^6 SH-SY5Y cells were stained with 0.2ug NMDAR2B/GRIN2B antibody (21920-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.