For Research Use Only

NMDAR1/GRIN1 Polyclonal antibody

Catalog Number:27232-1-AP



Basic Information	Catalog Number: GenBank Accession Number 27232-1-AP NM_000832		Number:	Purification Method: Antigen affinity purification					
	Size: 400 µg/ml Source: Rabbit	GeneID (NCBI): 2902 UNIPROT ID: Q05586 Full Name: glutamate receptor, ionotropic, N- methyl D-aspartate 1 Calculated MW: 105 kDa		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 IF-P 1:50-1:500					
	Isotype: IgG Immunogen Catalog Number: AG26093								
		Observed MW: 116-120 kDa							
Applications	Tested Applications: WB, IHC, IF-P, IP, 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 brain tissue, rat brain tissue IP : rat brain tissue, IHC : mouse brain tissue, mouse cerebellum tissue IF-P : rat brain tissue,						
					Background Information	GRIN1 encodes subunit 1 of the N-methyl-D-aspartate (NMDA) receptor, which is a heteromeric glutamate-gated calcium ion channel essential for synaptic function in the brain (PMID: 25864721, PMID: 25864721). NMDARs play important roles in normal brain development and function, such as synaptic plasticity, neural development, learning and memory (PMID: 20716669). NMDAR dysfunction has been associated with several neurological disorders including Parkinson, Alzheimer and Huntington diseases. Disrupted motor learning and long-term synaptic plasticity in mice lacking NMDAR1 in the striatum (PMID: 17015831).			
					Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	d 50% glycerol pH 7.3.		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27232-1-AP (NMDAR1/GRIN1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 27232-1-AP (NMDAR1/GRIN1 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 rat brain tissue using NMDAR1/CRIN1 antibody (27232-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-NMDAR1/GRIN1 (IP:27232-1-AP, 4ug; Detection:27232-1-AP 1:400) with rat brain tissue lysate 1120 ug.



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using NMDAR1/GRIN1 antibody (27232-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).