

For Research Use Only

# NMDAR2B/GRIN2B Monoclonal antibody, PBS Only



Catalog Number: 66565-1-PBS

## Basic Information

<b>Catalog Number:</b> 66565-1-PBS	<b>GenBank Accession Number:</b> BC113620	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2904	<b>CloneNo.:</b> 1C5E12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13224	
<b>Isotype:</b> IgG1	<b>Full Name:</b> glutamate receptor, ionotropic, N-methyl D-aspartate 2B	
<b>Immunogen Catalog Number:</b> AG16718	<b>Calculated MW:</b> 1484 aa, 166 kDa	
	<b>Observed MW:</b> 166 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human, Mouse, Rat

## Background Information

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 within a repertoire of over 10 different subunits: eight GluN1 isoforms, four GluN2 subunits (A-D) and two GluN3 subunits (A 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.

## Storage

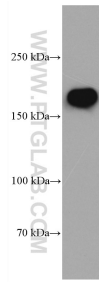
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

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



mouse brain tissue were subjected to SDS PAGE followed by western blot with 66565-1-Ig (NMDAR2B/GRIN2B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66565-1-PBS in a different storage buffer formulation.