

For Research Use Only

NMDAR2A/GRIN2A Recombinant antibody

Catalog Number: 83465-2-RR



Basic Information

Catalog Number: 83465-2-RR	GenBank Accession Number: NM_000833	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2903	CloneNo.: 240445D4
Source: Rabbit	UNIPROT ID: Q12879	Recommended Dilutions: WB 1:5000-1:50000 IF-P 1:200-1:800
Isotype: IgG	Full Name: glutamate receptor, ionotropic, N-methyl D-aspartate 2A	
Immunogen Catalog Number: AG29101	Calculated MW: 165 kDa	
	Observed MW: 160-180 kDa	

Applications

Tested Applications: WB, IF-P, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse brain tissue, rat brain tissue IF-P : rat brain tissue,

Background Information

GRIN2A (glutamate ionotropic receptor NMDA type subunit 2A), also known as NMDAR2A. And its molecular weight is 165 kDa. GRIN2A is located in cell projection, dendritic spine, cell membrane, synapse, postsynaptic cell membrane, cytoplasmic vesicle membrane, which is expressed in many tissues, highest expression in brain and heart. This gene encodes a member of the glutamate-gated ion channel protein family. The encoded protein is an N-methyl-D-aspartate (NMDA) receptor subunit. NMDA receptors are both ligand-gated and voltage-dependent, and are involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. These receptors are permeable to calcium ions, and activation results in a calcium influx into post-synaptic cells, which results in the activation of several signaling cascades. Disruption of this gene is associated with focal epilepsy and speech disorder with or without cognitive disability. Alternative splicing results in multiple transcript variants.

Storage

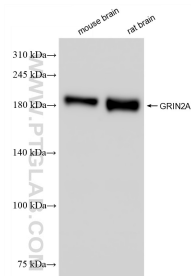
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

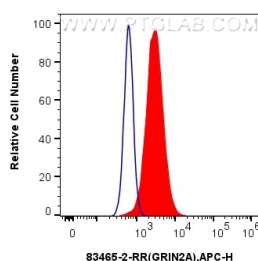
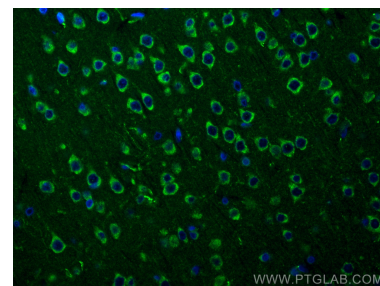
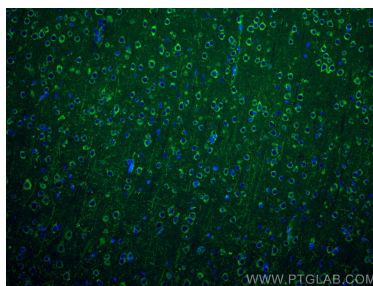
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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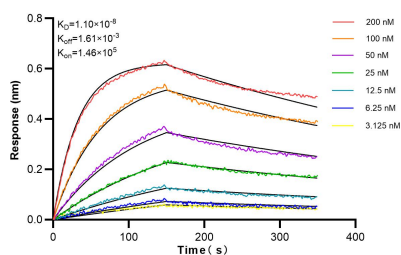
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83465-2-RR (GRIN2A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ U-251 cells were intracellularly stained with 0.25 ug Grin2a Recombinant Antibody (83465-2-RR, Clone:240445D4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83465-2-RR against Human NMDAR2A/GRIN2A were performed. The affinity constant is 11.0 nM.