

For Research Use Only

NMDAR2B/GRIN2B Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 88068-1-PBS



Basic Information

Catalog Number: 88068-1-PBS	GenBank Accession Number: BC113620	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 2904	CloneNo.: 260433C9
Source: Rabbit	UNIPROT ID: Q13224	
Isotype: IgG	Full Name: glutamate receptor, ionotropic, N-methyl D-aspartate 2B	
Immunogen Catalog Number: AG16318	Calculated MW: 1484 aa, 166 kDa	
	Observed MW: 180 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat, pig

Product Information

88068-1-PBS targets NMDAR2B/GRIN2B as part of a matched antibody pair:

MP03364-1: 88068-1-PBS capture and 88068-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

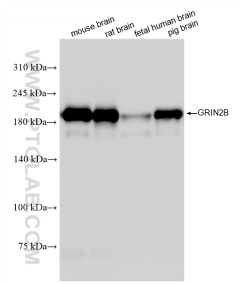
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

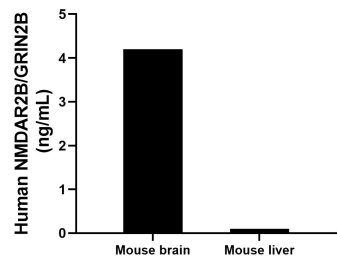
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

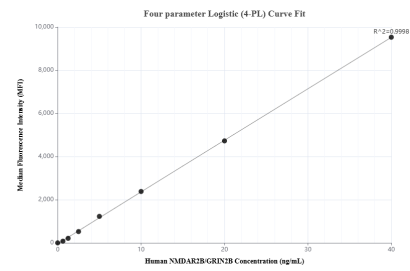
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88068-1-RR (GRIN2B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88068-1-PBS in a different storage buffer formulation.



The mean NMDAR2B/GRIN2B concentration was determined to be 4.2 ng/mL in Mouse brain tissue extract based on a 1.0 mg/mL extract load, 0.1 ng/mL in Mouse liver tissue extract based on a 1.0 mg/mL extract load.



Cytometric bead array standard curve of MP03364-1, NMDAR2B/GRIN2B Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88068-1-PBS. Detection antibody: 88068-2-PBS. Standard: Ag16318. Range: 0.625-40 ng/mL