For Research Use Only

NMDAR1/GRIN1 Recombinant antibody, PBS Only

Catalog Number:85973-3-PBS

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Basic Information

Catalog Number:
85973-3-PBS

Concentration:
1 mg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG26093

GenBank Accession Number:
NM_000832

GeneID (NCBI):
2902

UNIPROT ID:
Q05586

Full Name:
glutamate receptor, ionotropic, N-methyl D-aspartate 1

Calculated MW:
105 kDa

Observed MW:
116-120 kDa

Purification Method:
Protein A purification

CloneNo.:
250535B1

Applications

Tested Applications:
WB, IP, Indirect ELISA

Species Specificity:
human, mouse, rat

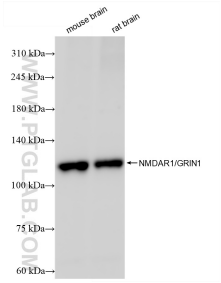
Background Information

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).

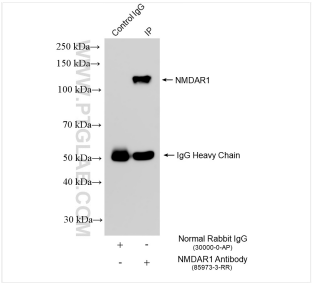
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

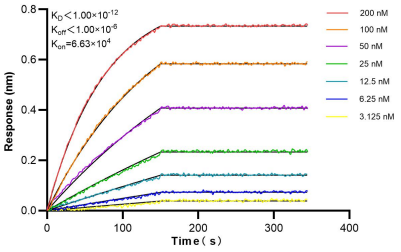
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85973-3-RR (NMDAR1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85973-3-PBS in a different storage buffer formulation.



IP result of anti-NMDAR1/GRIN1 (IP:85973-3-RR, 4ug; Detection:85973-3-RR 1:1000) with mouse brain tissue lysate 1720 ug. This data was developed using the same antibody clone with 85973-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85973-3-RR against Human NMDAR1/GRIN1 were performed. The affinity constant is below 1 pM.