

For Research Use Only

# NMDAR1/GRIN1 Recombinant antibody

Catalog Number: 85973-3-RR



## Basic Information

Catalog Number:

85973-3-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

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

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse 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 after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

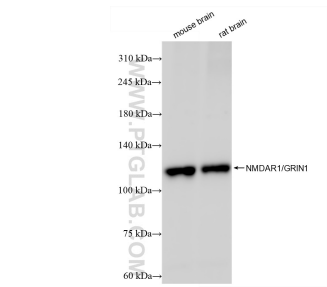
For technical support and original validation data for this product please contact:

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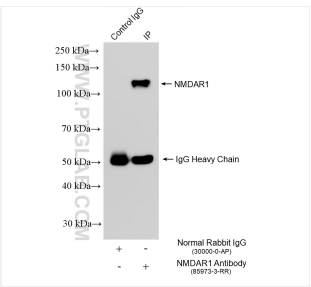
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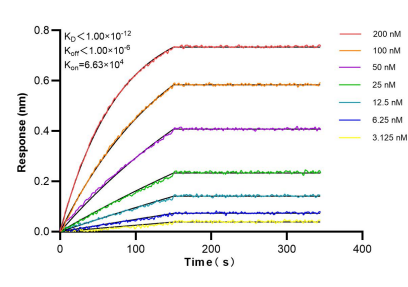
Selected Validation Data



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.



IP result of anti-NMDAR1/GRIN1 (IP:85973-3-RR, 4ug; Detection:85973-3-RR 1:1000) with mouse brain tissue lysate 1720 ug.



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