# NMDAR1 (PT1149R) PT® Rabbit mAb

CatalogNo: YM8881 Recombinant

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,IP,ELISA

MW
- 105kD (Calculated)

120kD (Observed)

Isotype
- IgG,Kappa

## Recommended Dilution Ratios

**IHC 1:500-1:2000**
**WB 1:2000-1:10000**
**IF 1:200-1:1000**
**ELISA 1:5000-1:20000**
**IP 1:50-1:200**

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |

## Basic Information

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|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | PT1149R |

## Immunogen Information

| | |
|---|---|
| **Specificity** | Endogenous |

## Target Information

**Gene name** GRIN1

**Protein Name** Glutamate [NMDA] receptor subunit zeta-1

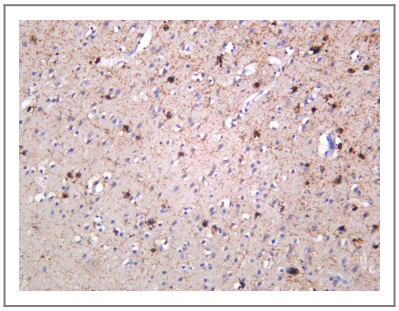
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 2902; | Q05586; |
| Mouse | 14810; | P35438; |
| Rat | 24408; | P35439; |

**Cellular Localization** Cell membrane ; Multi-pass membrane protein . Cell junction, synapse, postsynaptic cell membrane . Cell junction, synapse, postsynaptic density . Enriched in postsynaptic plasma membrane and postsynaptic densities. .

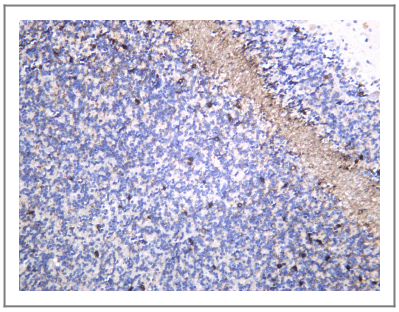
**Tissue specificity** Brain,Cerebellum,Hippocampus,

**Function** Function:NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors.,online information:NMDA receptor entry,PTM:NMDA is probably regulated by C-terminal phosphorylation of an isoform of NR1 by PKC. Dephosphorylated on Ser-897 probably by protein phosphatase 2A (PPP2CB). Its phosphorylated state is influenced by the formation of the NMDAR-PPP2CB complex and the NMDAR channel activity.,similarity:Belongs to the glutamate-gated ion channel (TC 1.A.10) family.,subcellular location:Enriched in post-synaptic plasma membrane and post-synaptic densities.,subunit:Forms heteromeric channel of a zeta subunit (GRIN1), a epsilon subunit (GRIN2A, GRIN2B, GRIN2C or GRIN2D) and a third subunit (GRIN3A or GRIN3B); disulfide-linked. Found in a complex with GRIN2A or GRIN2B, GRIN3A or GRIN3B and PPP2CB. Interacts with DLG4 and MPDZ.,

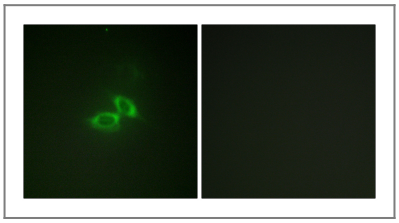
## Validation Data



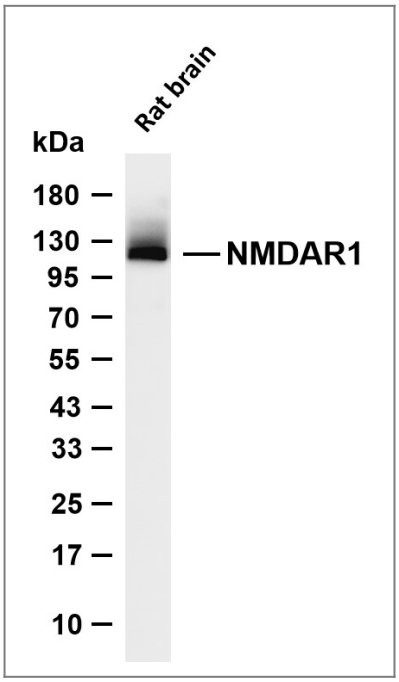
Human brain was stained with anti-NMDAR1 (PT1149R) Rabbit antibody



Mouse brain was stained with anti-NMDAR1 (PT1149R) Rabbit antibody



Immunofluorescence analysis of NIH/3T3 cells, using NMDAR1 Antibody. The picture on the right is blocked with the synthesized peptide.




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NMDAR1 (PT1149R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Rat brain Predicted band size: 105kDa Observed band size: 120kDa

## Contact information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|---|---|
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Please scan the QR code to access additional product information:
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