

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

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

Clonality Monoclonal

Clone Number PT1149R

Immunogen Information

Specificity Endogenous

| Target Information

Gene name GRIN1

Protein Name Glutamate [NMDA] receptor subunit zeta-1

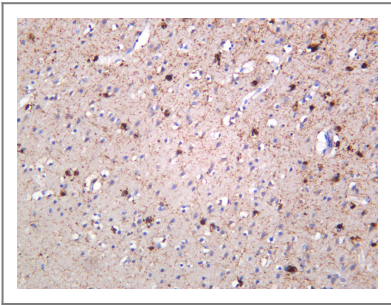
Organism	Gene ID	UniProt ID
Human	2902 ;	Q05586 ;
Mouse	14810 ;	P35438 ;
Rat	24408 ;	P35439 ;

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. .

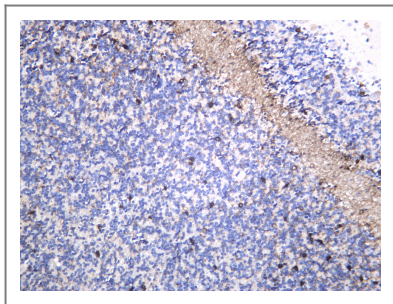
Tissue specificity Brain,Cerebellum,Hippocampus,

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.,

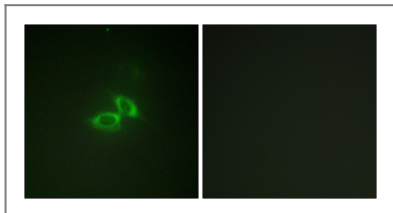
| Validation Data



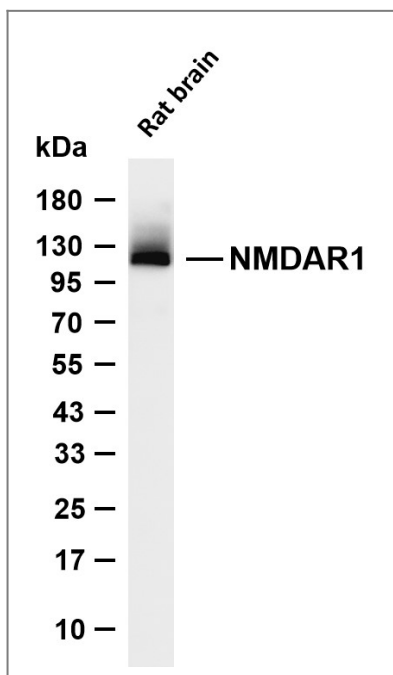
Human brain was stained with anti-NMDAR1 (PT1149R) Rabbit antibody



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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Please scan the QR code to access additional product information:
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PT® Rabbit mAb