

Product datasheet for AP20758PU-M

NMDAR1 (GRIN1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500 - 1/1000.

Immunohistochemistry on paraffin sections: 1/50 - 1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit
Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of NMDAzeta1 protein.

(region surrounding Phe891)

Formulation: Phosphate buffered saline (PBS), pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 120 kDa

Gene Name: glutamate ionotropic receptor NMDA type subunit 1

Database Link: Entrez Gene 14810 MouseEntrez Gene 24408 RatEntrez Gene 2902 Human

Q05586



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Background: NMDA receptor subtype of glutamate-gated ion channels possesses high calcium

permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. 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. The ion channels activated by glutamate are divided into two classes. Those that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by kainate and a-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as kainate/AMPA receptors (K/AMPAR). NMDA receptors are among the most studied receptors in neuroscience because they are involved in neuronal cell development and plasticity, a cellular correlate for learning.

Synonyms: NMDAR1,GRIN1

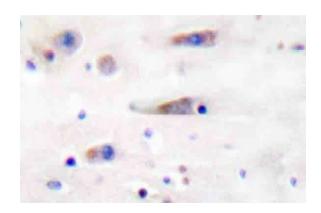
Protein Families: Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways: Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Calcium signaling pathway,

Huntington's disease, Long-term potentiation, Neuroactive ligand-receptor interaction

Product images:

Western blot (WB) analyzes of NMDAzeta1 antibody (Cat.-No.: [AP20758PU-N]) in extracts from Jurkat cells.



Immunohistochemistry (IHC) analyzes of NMDAzeta1 antibody (Cat.-No.: [AP20758PU-N]) in paraffin-embedded human breast carcinoma tissue.