AP0771
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Phospho-GRIN2B-Y1474 Rabbit pAb

Catalog No.: AP0771 1 Publications

Basic Information

Observed MW
190kDa

Calculated MW
166kDa

Category
Polyclonal Antibody

Applications
WB,ELISA

Cross-Reactivity
Human,Mouse,Rat

Background

This gene encodes a member of the N-methyl-D-aspartate (NMDA) receptor family within the ionotropic glutamate receptor superfamily. The encoded protein is a subunit of the NMDA receptor ion channel which acts as an agonist binding site for glutamate. The NMDA receptors mediate a slow calcium-permeable component of excitatory synaptic transmission in the central nervous system. The NMDA receptors are heterotetramers of seven genetically encoded, differentially expressed subunits including NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The early expression of this gene in development suggests a role in brain development, circuit formation, synaptic plasticity, and cellular migration and differentiation. Naturally occurring mutations within this gene are associated with neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder, epilepsy, and schizophrenia.

Recommended Dilutions

WB	1:500 - 1:2000

Immunogen Information

Gene ID
2904

Swiss Prot
Q13224

Immunogen
A synthetic phosphorylated peptide around Y1474 of human GRIN2B (NP_000825.2).

Synonyms
NR3; MRD6; NR2B; hNR3; DEE27; EIEE27; GluN2B; NMDAR2B; Phospho-GRIN2B-Y1474

Contact

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Product Information

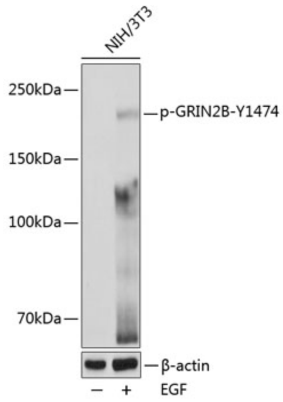
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates using Phospho-GRIN2B-Y1474 pAb (AP0771) at 1:1000 dilution.NIH/3T3 cells were treated by EGF (100 ng/mL) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.