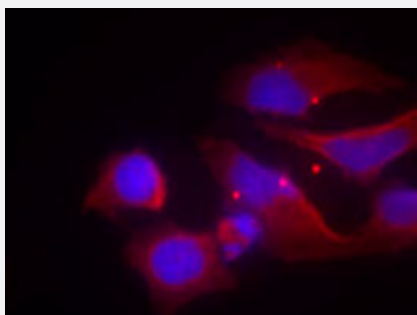


GRIN2B (phospho Y1474) polyclonal antibody

Catalog # PAB12171 Size 100 uL

Applications



Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using GRIN2B (phospho Y1474) polyclonal antibody (Cat # PAB12171, red).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of GRIN2B.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y1474 of human GRIN2B.
Sequence	HVYpEK
Host	Rabbit
Theoretical MW (kDa)	190
Reactivity	Human, Mouse, Rat
Specificity	NMDAR2B (phospho-Tyr1474) antibody detects endogenous levels of NMDAR2B only when phosphorylated at Tyr1474.
Form	Liquid
Purification	Immunoaffinity purification
Concentration	1 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Immunofluorescence (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using GRIN2B (phospho Y1474) polyclonal antibody (Cat # PAB12171, red).

Gene Info — GRIN2B

Entrez GeneID	2904
Protein Accession#	Q13224
Gene Name	GRIN2B
Gene Alias	MGC142178, MGC142180, NMDAR2B, NR2B, hNR3
Gene Description	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
Omim ID	138252
Gene Ontology	Hyperlink
Gene Summary	N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of three different subunits: NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The NR2 subunit acts as the agonist binding site for glutamate. This receptor is the predominant excitatory neurotransmitter receptor in the mammalian brain. [provided by RefSeq]
Other Designations	N-methyl-D-aspartate receptor subunit 2B glutamate receptor subunit epsilon-2

Publication Reference

- [Switching of NMDA receptor 2A and 2B subunits at thalamic and cortical synapses during early postnatal development.](#)

Liu XB, Murray KD, Jones EG.

Journal of Neuroscience 2004 Oct; 24(40):8885.

- [Regulation of NMDA receptors by an associated phosphatase-kinase signaling complex.](#)

Westphal RS, Tavalin SJ, Lin JW, Alto NM, Fraser ID, Langeberg LK, Sheng M, Scott JD.

Science 1999 Jul; 285(5424):93.

- [Characterization of protein kinase A and protein kinase C phosphorylation of the N-methyl-D-aspartate receptor NR1 subunit using phosphorylation site-specific antibodies.](#)

Tingley WG, Ehlers MD, Kameyama K, Doherty C, Ptak JB, Riley CT, Huganir RL.

The Journal of Biological Chemistry 1997 Feb; 272(8):5157.

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Long-term potentiation](#)
- [Neuroactive ligand-receptor interaction](#)
- [Systemic lupus erythematosus](#)

Disease

- [Alcohol Withdrawal Delirium](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Bipolar Disorder](#)
- [Bulimia](#)

- [Cognition](#)
- [Cognition Disorders](#)
- [Cues](#)
- [Disease Models](#)
- [Dyslexia](#)
- [Epilepsy](#)
- [Executive Function](#)
- [Genetic Predisposition to Disease](#)
- [Huntington disease](#)
- [Impulse Control Disorders](#)
- [Inhibition \(Psychology\)](#)
- [Memory](#)
- [Mental Disorders](#)
- [Nerve Degeneration](#)
- [Neuropsychological Tests](#)
- [Obsessive-Compulsive Disorder](#)
- [Parkinson disease](#)
- [Pheochromocytoma](#)
- [Postmortem Changes](#)
- [Psychiatric Status Rating Scales](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Seizures](#)
- [Substance Withdrawal Syndrome](#)
- [Tobacco Use Disorder](#)
- [Verbal Learning](#)

- [Weight Gain](#)