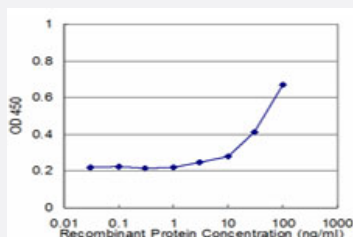


GRIN2B monoclonal antibody (M01), clone 2G5

Catalog # H00002904-M01

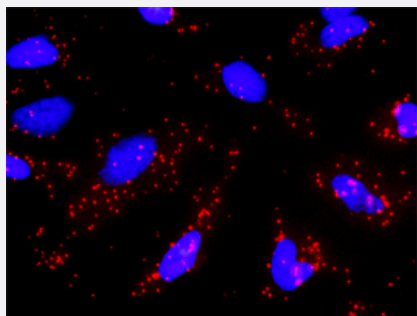
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GRIN2B is approximately 3ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CAPN1 and GRIN2B. HeLa cells were stained with anti-CAPN1 rabbit purified polyclonal 1:1200 and anti-GRIN2B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant GRIN2B.

Immunogen	GRIN2B (NP_000825, 127 a.a. ~ 236 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	HGGSSMIMADKDESSMFFQFGPSIEQQASVMLNIMEEYDWYIFSIVTTYFPGYQDFV NKIRSTIENS FVGWELEEVLLLDMSLDDGDSKIQNQLKKLQSPIILLYCTKEE
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GRIN2B is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CAPN1 and GRIN2B. HeLa cells were stained with anti-CAPN1 rabbit purified polyclonal 1:1200 and anti-GRIN2B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — GRIN2B

Entrez GeneID	2904
GeneBank Accession#	NM_000834
Protein Accession#	NP_000825

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

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](#)