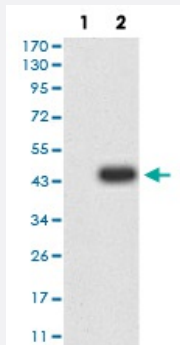


GRIN2B monoclonal antibody, clone 6E9A8

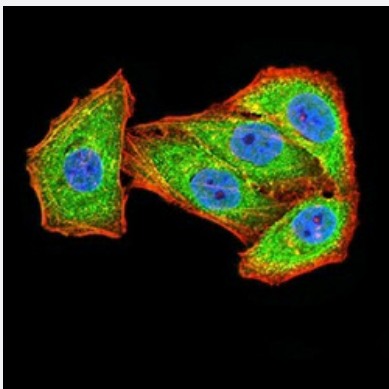
Catalog # MAB17590 Size 100 ug

Applications



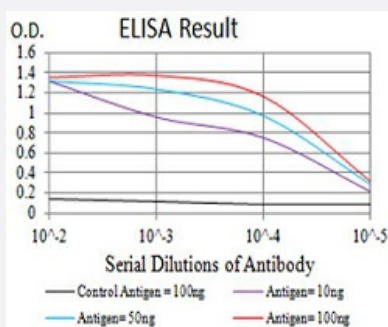
Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRIN2B-hlgGfc transfected HEK293 cell lysate.



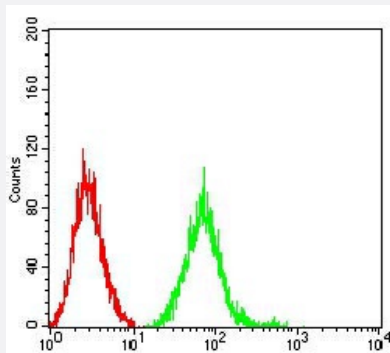
Immunocytochemistry

Immunocytochemical staining of HeLa cells with GRIN2B monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRIN2B monoclonal antibody, clone 6E9A8.



Flow Cytometry

Flow cytometric analysis of SK-N-SH cells with GRIN2B monoclonal antibody (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human GRIN2B.
Immunogen	Recombinant protein corresponding to amino acid 27-163 of human GRIN2B from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	166.4
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunocytochemistry (1:100-1:500) Flow Cytometry (1:200-1:400) Immunohistochemistry The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage 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

- Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) GRIN2B-hlgGFc transfected HEK293 cell lysate.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with GRIN2B monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GRIN2B monoclonal antibody, clone 6E9A8.

- Flow Cytometry

Flow cytometric analysis of SK-N-SH cells with GRIN2B monoclonal antibody (green) and negative control (red).

Gene Info — GRIN2B

Entrez GeneID [2904](#)

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](#)