Datasheet for ABIN967956

anti-GRIN2B antibody (AA 892-1051)

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Overview

Quantity:	150 µg
Target:	GRIN2B
Binding Specificity:	AA 892-1051
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GRIN2B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), BioImaging (BI)

Product Details

Immunogen:	Rat NMDAR2B aa. 892-1051
Clone:	13-NMDAR2B
Isotype:	IgG2b
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	GRIN2B
Alternative Name:	NMDAR2B (GRIN2B Products)
Background:	The majority of synapses in the central nervous system utilize glutamate as a neurotransmitter to produce rapid neuronal excitation. Glutamate has a diverse array of receptors that can be categorized into two groups: ionotropic and metabotropic. The ionotropic receptors are subdivided into two distint types: 1) receptors for N-methyl D-aspartate (NMDAR) and 2) non-NMDA receptors for AMPA and kainate. Three types of NMDAR2 have been identified: NR2A, NR2B, and NR2C. NR2A and NR2B contain a C-terminal extension (>600 amino acids) that has small scattered regions of conserved sequence. The three NR2 mRNAs show overlapping, differential expression patterns in the rat brain. NR2B has been reported to be expressed in the forebrain, thalamic nuclei, amygdaloid nuclei, caudateputamen, and in restricted regions of the olfactory bulb. This antibody is routinely tested by western blot analysis. Synonyms: N-Methyl-D-Aspartate Receptor 2B
Molecular Weight:	180 kDa
Pathways:	Response to Growth Hormone Stimulus, Synaptic Membrane, Feeding Behaviour, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Yoshii, Sheng, Constantine-Paton: "Eye opening induces a rapid dendritic localization of PSD-95 in central visual neurons." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 3, pp. 1334-9, (2003) (PubMed).

Fallon, Moreau, Croft, Labib, Gu, Fon: "Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain." in: **The Journal of biological chemistry**, Vol. 277, Issue 1, pp. 486-91, (2002) (PubMed).

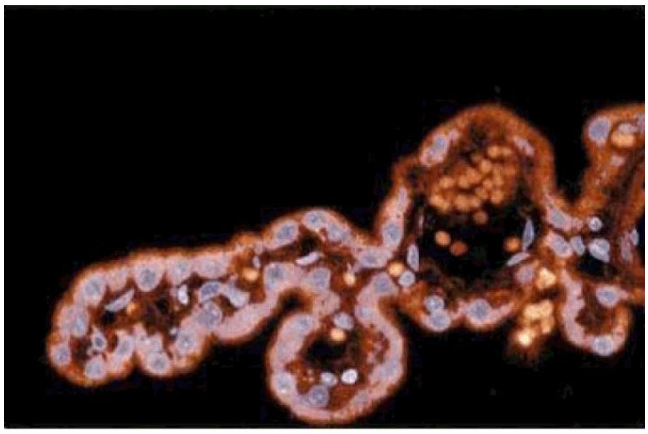
Wong, Setou, Teng, Takei, Hirokawa: "Overexpression of motor protein KIF17 enhances spatial and working memory in transgenic mice." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 99, Issue 22, pp. 14500-5, (2002) (PubMed).

Sun, Murali: "Stimulation of Na+-K+-2Cl- cotransporter in neuronal cells by excitatory neurotransmitter glutamate." in: **The American journal of physiology**, Vol. 275, Issue 3 Pt 1, pp. C772-9, (1998) (PubMed).

Monyer, Sprengel, Schoepfer, Herb, Higuchi, Lomeli, Burnashev, Sakmann, Seeburg: " Heteromeric NMDA receptors: molecular and functional distinction of subtypes." in: **Science (New York, N.Y.)**, Vol. 256, Issue 5060, pp. 1217-21, (1992) (PubMed).

Western Blotting

Image 1. Western blot analysis of NMDAR2B on a rat cerebrum lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- NMDAR2B antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of a rabbit brain section.

Image 3.