

Cat. No:	AB-10146
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 23-120 of human GRIN2A
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1:500 -1:2000 Immunohistochemistry: 1:50 -1:200 Immunofluorescence: 1:50 -1:200
Molecular Weight:	170kDa
Purification:	Aff. Pur.
Synonyms:	GRIN2A; EPND; FESD; GluN2A; LKS; NMDAR2A; NR2A ; glutamate receptor ionotropic, NMDA 2A
Background:	<p>This gene encodes a member of the glutamate-gated ion channel protein family. The encoded protein is an N-methyl-D-aspartate (NMDA) receptor subunit. NMDA receptors are both ligand-gated and voltage-dependent, and are involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. These receptors are permeable to calcium ions, and activation results in a calcium influx into post-synaptic cells, which results in the activation of several signaling cascades. Disruption of this gene is associated with focal epilepsy and speech disorder with or without mental retardation. Alternative splicing results in multiple transcript variants.</p>
Form:	Liquid
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage:	Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of mouse brain, using NMDAR2A antibody at 1:3000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit.
Exposure time: 90s



Immunofluorescence analysis of rat brain using NMDAR2A antibody at dilution of 1:50. Blue: DAPI for nuclear staining.

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