

Rabbit anti-Mouse GRIN2C Polyclonal Antibody | anti-GRIN2C antibody

GRIN2C Antibody (Center)

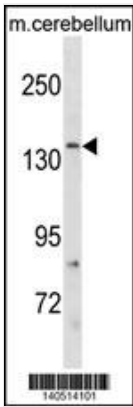
CATALOG # AAA285762	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

GRIN2C; Polyclonal Antibody; GRIN2C Antibody (Center); Glutamate receptor ionotropic; NMDA 2C; GluN2C; Glutamate [NMDA] receptor subunit epsilon-3; N-methyl D-aspartate receptor subtype 2C; NMDAR2C; NR2C; anti-GRIN2C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GRIN2C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 567-595 amino acids from the Central region of human GRIN2C.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	567-595
Sequence Length	1233
Applicable Applications for anti-GRIN2C antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Function	Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:26875626). Sensitivity to glutamate and channel kinetics depend on the subunit composition (Probable). Plays a role in regulating the balance between excitatory and inhibitory activity of pyramidal neurons in the prefrontal cortex. Contributes to the slow phase of excitatory postsynaptic current, long-term synaptic potentiation, and learning (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein
Tissue Location	Mainly expressed in brain with predominant expression is in the cerebellum, also present in the hippocampus, amygdala, caudate nucleus, corpus callosum, subthalamic nuclei and thalamus. Detected in the heart, skeletal muscle and pancreas
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
GRIN2C Antibody (Center) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the GRIN2C antibody detected the GRIN2C protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-GRIN2C antibody	N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA 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 the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D). [provided by RefSeq].
Product Categories/Family for anti-GRIN2C antibody	Neuroscience; Amyotrophic Lateral Sclerosis (ALS); Phospho Antibodies
References	Need, A.C., et al. Eur. J. Hum. Genet. 17(7):946-957(2009) Tabakoff, B., et al. BMC Biol. 7, 70 (2009) : Shi, J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (7), 1270-1277 (2008) : Self, R.L., et al. Brain Res. 995(1):39-45(2004) Krapivinsky, G., et al. Neuron 40(4):775-784(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	55770854
NCBI GeneID	2905
NCBI Accession #	NP_000826.2
NCBI GenBank Nucleotide #	NM_000835.4
UniProt Accession #	Q14957; B2RTT1
Molecular Weight	134209
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 2C isoform 1
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, N-methyl D-aspartate 2C
NCBI Official Symbol	GRIN2C
NCBI Official Synonym Symbols	NR2C; GluN2C; NMDAR2C
NCBI Protein Information	glutamate receptor ionotropic, NMDA 2C
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 2C

UniProt Gene Name	GRIN2C
UniProt Synonym Gene Names	NMDAR2C; GluN2C; NMDAR2C; NR2C
UniProt Entry Name	NMDE3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/grin2c-antibody-western-blot-elisa/285762>