



## Anti-GRIN1 (aa 21-120) polyclonal antibody (DPAB-DC1465)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits. Alternatively spliced transcript variants have been described.
<b>Immunogen</b>	GRIN1 (NP_015566, 21 a.a. ~ 120 a.a) partial recombinant protein with GST tag. The sequence is  ACDPKIVNIGAVLSTRKHEQMFR <span style="font-family: monospace;">EAVNQANKRHG<span style="font-family: monospace;">SWKIQLNATSVTHKPNAIQMALSVC<span style="font-family: monospace;">E</span></span></span> DLISSQVYAILVSHPPTPNDHFTPTPVSYTAGFYRIPVLG
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### GENE INFORMATION

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<b>Gene Name</b>	<a href="#">GRIN1 glutamate receptor, ionotropic, N-methyl D-aspartate 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	GRIN1
<b>Synonyms</b>	GRIN1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; NR1; MRD8; GluN1; NMDA1; NMDAR1; glutamate receptor ionotropic, NMDA 1; NMD-R1; glutamate [NMDA] receptor subunit zeta 1; glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; N-methyl-D-aspartate receptor channel, subunit zeta-1;
<b>Entrez Gene ID</b>	<a href="#">2902</a>
<b>Protein Refseq</b>	<a href="#">NP_000823</a>
<b>UniProt ID</b>	<a href="#">Q05586</a>
<b>Chromosome Location</b>	9q34.3
<b>Pathway</b>	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Alzheimers disease; Amphetamine addiction; BDNF signaling pathway
<b>Function</b>	contributes_to N-methyl-D-aspartate selective glutamate receptor activity; contributes_to calcium channel activity; calcium ion binding; calmodulin binding

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