

Recombinant Rat Grin2b Protein, His-tagged, OVA Conjugated

Cat. No. Grin2b-2814R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OVA Conjugated Recombinant Rat Grin2b Protein (Pro1113-Cys1122) fused with a N-His tag.
Species	Rat
Source	Protein Conjugation
ProteinLength	Pro1113-Cys1122
Description	Enables several functions, including beta-catenin binding activity; extracellular ligand-gated ion channel activity; and signaling receptor binding activity. Involved in several processes, including cellular response to organic cyclic compound; learning or memory; and pallium development. Located in several cellular components, including Z disc; dendrite; and synaptic cleft. Is integral component of plasma membrane. Part of NMDA selective glutamate receptor complex. Is active in glutamatergic synapse; hippocampal mossy fiber to CA3 synapse; and parallel fiber to Purkinje cell synapse. Is integral component of postsynaptic density membrane and integral component of presynaptic membrane. Used to study attention deficit hyperactivity disorder; fetal alcohol spectrum disorder; and hyperhomocysteinemia. Biomarker of several diseases, including attention deficit hyperactivity disorder; cognitive disorder (multiple); hypoglycemia; placental insufficiency; and sciatic neuropathy. Human ortholog(s) of this gene implicated in several diseases, including alcohol use disorder; autosomal dominant non-syndromic intellectual disability 6; bipolar disorder; developmental and epileptic encephalopathy 27; and neurodegenerative disease

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	(multiple). Orthologous to human GRIN2B (glutamate ionotropic receptor NMDA type subunit 2B).
Form	Freeze-dried powder
Purity	> 90%
Applications	Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
Conjugation	OVA

GENE INFORMATION

Gene Name	Grin2b glutamate receptor, ionotropic, N-methyl D-aspartate 2B [Rattus norvegicus]
Official Symbol	Grin2b
Synonyms	GRIN2B; glutamate receptor, ionotropic, N-methyl D-aspartate 2B; glutamate [NMDA] receptor subunit epsilon-2; NR2B; NMDAR2B; glutamate receptor, ionotropic,

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NMDA2B; N-methyl D-aspartate receptor subtype 2B;

Gene ID 24410**mRNA Refseq** NM_012574**Protein Refseq** NP_036706**UniProt ID** Q00960 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA