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Datasheet for 600-401-D95

NMDA R2C phospho S1096 Antibody

Overview

Description:	Anti-NMDA R2C pS1096 (RABBIT) Antibody - 600-401-D95
Item No.:	600-401-D95
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NMDA R2C pS1096 antibody detects NMDA 2C receptor protein. The ion channels activated by glutamate that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR). The NMDAR plays an essential role in memory, neuronal development and it has also been implicated in several disorders of the central nervous system including Alzheimer's, epilepsy and ischemic neuronal cell death. The NMDA receptor is also one of the principal molecular targets for alcohol in the CNS. The NMDAR is also potentiated by protein phosphorylation. The NR2C subunit of the receptor is thought to influence the NMDAR conductance level. Phosphorylation of Ser1096 by PKB on NR2C has been recently demonstrated to regulate NMDA receptor binding to 14-3-3. Anti-NMDA R2C pS1096 antibody is ideal for investigators involved in Cell Signaling, Neuroscience, and Signal Transduction research.
Synonyms:	Glutamate [NMDA] receptor subunit epsilon-3, N-methyl D-aspartate receptor subtype 2C, NMDAR2C, NR2C
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Grin2c
Reactivity:	Mouse, Rat
PTM Specificity:	Phosphorylation

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-NMDA R2C pS1096 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser1096.
Purity/Specificity:	Anti-NMDA R2C pS1096 antibody is directed against phosphorylated NMDA 2C receptor protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. The antibody is specific for NMDA 2C receptor phosphorylated at S1096. Reactivity is expected from the following species based on 100% sequence homology: bovine, canine, human and non-human primates.
Relevant Links:	• UniProtKB - Q00961 • GeneID - 24411 • UniProtKB - Q00961.1

Application Details

Tested Applications:	WB
Application Note:	Anti-NMDA R2C pS1096 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 140 kDa in size corresponding to the NR2C subunit of the NMDA receptor phosphorylated at Ser1096 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

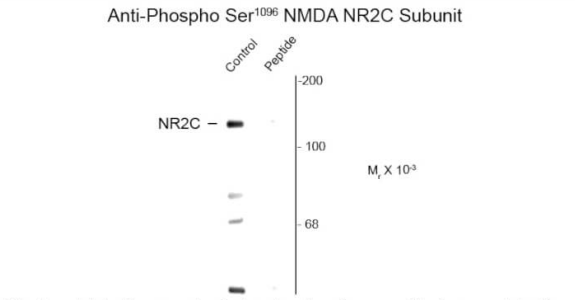
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of mouse brain lysate showing specific immunolabeling of the ~140k NR2C subunit of the NMDA receptor phosphorylated at Ser1096. In the second lane immunoreactivity is blocked by preadsorption with the phospho-peptide (Peptide) used as antigen.

Western Blot
Western Blot of Rabbit anti-NMDA 2C pS1096 antibody. Lane 1: Mouse Brain Lysate. Lane 2: Peptide. Load: 20 µg per lane. Primary antibody: NMDA 2C pS1096 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 140 kDa for NMDA 2C pS1096. Other band(s): NMDA 2C pS1096 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.