

Datasheet for 600-401-D96**NMDA R2C phospho S1244 Antibody****Overview**

Description:	Anti-NMDA R2C pS1244 (RABBIT) Antibody - 600-401-D96
Item No.:	600-401-D96
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NMDA R2C pS1244 Antibody detects phosphorylated NMDA R2C 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 Ser1244 has been shown to regulate NMDA receptor channel function. Anti-NMDA R2C pS1244 Antibody is ideal for investigators involved in Neuroscience, Signal Transduction, and Cell Signaling 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 pS1244 Antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser1244.
Purity/Specificity:	Anti-NMDA R2C pS1244 antibody is directed against NMDA R2C protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification and is specific for the phosphorylated NMDA R2C protein. Immunolabeling is blocked by preadsorption of antibody with the phospho-peptide that was used to generate the antibody but not by the corresponding dephosphopeptide. Reactivity is expected from bovine, canine, human, and non-human primates. Cross reactivity from other species has not been determined.
Relevant Links:	• UniProtKB - Q00961 • GenelD - 24411 • UniProtKB - Q00961.1

Application Details

Tested Applications:	WB
Application Note:	Anti-NMDA R2C pS1244 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 NMDA receptor phosphorylated at Ser1244 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

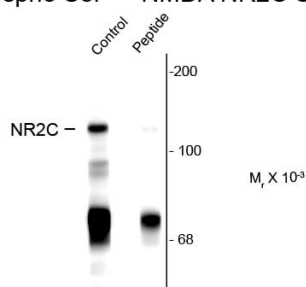
Shipping & Handling

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

Anti-Phospho Ser¹²⁴⁴ NMDA NR2C Subunit



Western blot of rat cerebellum lysate showing specific immunolabeling of the ~140k NR2C subunit of the NMDA receptor phosphorylated at Ser¹²⁴⁴. 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 R2C pS1244 antibody.
 Lane 1: rat cerebellum lysate (control). Lane 2: Peptide.
 Load: 10 µg per lane. Primary antibody: NMDA R2C pS1244 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 R2C pS1244.
 Other band(s): NMDA R2C pS1244 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.