

AB-PN843

NR2B-pY1474 Antibody

Phosphosite-specific rabbit polyclonal antibody for NR2B (GRIN2B)



KINEXUS

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Target Protein

Protein Name Long:	Glutamate [NMDA] receptor subunit epsilon-2
Protein Alias:	Glutamate [NMDA] receptor subunit epsilon 2 precursor; Glutamate receptor, ionotropic, N-methyl D-aspartate 2B; HNR3; NMDAR2B; NMDE2; NME2; N-methyl D-aspartate receptor subtype 2B; N-methyl-D-aspartate receptor subtype 2B; N-methyl-D-aspartate receptor subunit 3; NR2B; NR3
UniProt ID:	Q13224
Protein Molecular Mass:	166,367 Da (1,484 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NR2B
Antibody Immunogen Sequence:	GHV(pY)EKLSC
Antibody Immunogen Description:	Corresponds to amino acid residues G1471 to S1477. Y1474 has been linked to increased cell motility and regulates synaptic plasticity. This is the major site of phosphorylation of NR2B by mass spectrometry (>105 reports recorded in PhosphoSitePlus). NR2B is known to be phosphorylated at this site <i>in vitro</i> by Fyn, and Src.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.7 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Rat Mouse

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987