

AB-PN838

NMDAR2A-pY943 Antibody

Phosphosite-specific rabbit polyclonal antibody for NMDAR2A NMDA (GRIN2A; Glutamate [NMDA] receptor subunit epsilon-1). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Glutamate [NMDA] receptor subunit epsilon-1
Protein Alias:	Glutamate [NMDA] receptor subunit epsilon 1 precursor; Glutamate receptor, ionotropic, N-methyl D-aspartate 2A; NMDAR2A; NMDAR2AGlutamate [NMDA] receptor subunit epsilon 1; NMDE1; N-methyl D-aspartate receptor subtype 2A; N-methyl-D-aspartate receptor subtype 2A; NR2A
UniProt ID:	Q12879
Protein Molecular Mass:	165,283 Da (1464 AA; Q12879-1); 144,431 Da (1281 AA; Q12879-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NMDAR2A
Antibody Immunogen Sequence:	CGNLM(pY)SDN
Antibody Immunogen Description:	Corresponds to amino acid residues G939 to N946. The effect of Y943 phosphorylation is unclear. This is the major <i>in vivo</i> phosphorylation site in NMDAR2A (≥ 134 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in fish. NMDAR2A NMDA is known to be phosphorylated at this site <i>in vitro</i> by Fyn.
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 multipеп peptide 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 μ g
Antibody Concentration:	0.65 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 Chimpanzee Dog Rat Mouse Platypus Frog Zebra fish

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