

AB-PN841

NR1-pS897 Antibody

Phosphosite-specific rabbit polyclonal antibody for NR1 (NMDAR1)



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Target Protein

Protein Name Long:	Glutamate [NMDA] receptor subunit zeta-1
Protein Alias:	N-methyl-D-aspartate receptor subunit NR1
UniProt ID:	Q05586
Protein Molecular Mass:	105,373 Da (938 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NR1
Antibody Immunogen Sequence:	RRS(pS)KDTSC
Antibody Immunogen Description:	Corresponds to amino acid residues R894 to S900. The effect of NMDAR1 Ser-897 phosphorylation is unclear. <i>In vivo</i> phosphorylation of NR1 by high throughput mass spectrometry has not been recorded in PhosphoSitePlus. NR1 is known to be phosphorylated at this site <i>in vitro</i> by PKACa (PRKACA), and PKCa (PRKCA).
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 µg
Antibody Concentration:	1 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 Dog Rat Mouse Chicken

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