

AB-PN849

SNCA-pS129 Antibody

Phosphosite-specific rabbit polyclonal antibody for SNCA (α-Synuclein). This phosphoserine-site antibody also cross-reacts with phosphothreonine, and phosphotyrosine substitutions.

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Target Protein

Protein Name Long:	Alpha-synuclein
Protein Alias:	NACP; Non A4 component of amyloid precursor; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; PARK1; PD1; SYN; Synuclein, alpha; SYUA
UniProt ID:	P37840
Protein Molecular Mass:	14,460 Da (140 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human SNCA
Antibody Immunogen Sequence:	EMP(pS)EEGC
Antibody Immunogen Description:	Corresponds to amino acid residues E126 to G132. S129 phosphorylation induces its activity and regulates intracellular location and interactions. It is one of the more prominent <i>in vivo</i> phosphorylation sites by mass spectrometry (≥7 reports recorded in PhosphoSitePlus by high throughput analysis). SNCA is known to be phosphorylated at this site <i>in vitro</i> by BARK1, CAMK2A, CK1a1 (CSNK1A1), CK2a1 (CSNK2A1), GRK2, GRK5, GSK3B, PLK1 (PLK), PLK2 (SNK), and PLK3 (CNK).
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:	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