

Product datasheet for **AP05761PU-N**

alpha Synuclein (SNCA) pSer129 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 1:1000; detects a band of approximately 15kDa in rat cortex lysate.
Reactivity:	Bovine, Canine, Human, Monkey, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide corresponding to amino acid sequence surrounding phosphorylated serine 129 of Alpha Synuclein.
Specificity:	This antibody specifically recognises rat alpha synuclein when phosphorylated at Ser129.
Formulation:	10mM HEPES pH7.5, 150mM NaCl containing 0.09% Sodium Azide (NaN ₃), 50% Glycerol 0.01% Bovine Serum Albumin State: Purified State: Liquid purified IgG
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	synuclein alpha
Database Link:	Entrez Gene 6622 Human P37840



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Background:

Alpha synuclein is a 140 amino acid, 15kDa protein seen predominantly in the neocortex, hippocampus, substantia nigra, thalamus and cerebellum. Its normal cellular function has not been definitively determined, but it is thought to be involved in the regulation of neuronal plasticity, dopamine neurotransmission and other membrane-associated processes at the presynaptic terminal. Alpha synuclein is normally a soluble, unfolded protein, but it can aggregate at high concentrations to form insoluble fibrils which, in association with other proteins such as ubiquitin, neurofilament protein and alpha B crystalline, form Lewy bodies. Lewy bodies are a hallmark pathological feature of Parkinsons disease and other neurodegenerative diseases. Alpha synuclein has several possible phosphorylation sites, Ser129 in particular can be phosphorylated by Gprotein-coupled receptor kinases. Studies suggest that this phosphorylation promotes formation of alpha synuclein filaments, with hyperphosphorylation of Ser129 seen in Lewy bodies.

Synonyms:

NACP, PARK1