



Magic[™] Anti-Alpha Synuclein (Phospho S129) polyclonal antibody (CPBT-66762RR)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product specifically recognises rat alpha synuclein when phosphorylated at Ser129. 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 Parkinson's disease and other neurodegenerative diseases. Alpha synuclein has several possible phosphorylation sites, Ser129 in particular can be phosphorylated by G-protein-coupled receptor kinases. Studies suggest that this phosphorylation promotes formation of alpha synuclein filaments, with hyperphosphorylation of Ser129 seen in Lewy bodies. Western Blotting detects a band of approximately 15kDa in rat cortex lysate.

Specificity	ALPHA SYNUCLEIN
Target	Alpha Synuclein
Immunogen	Synthetic phosphopeptide corresponding to amino acid sequence surrounding phosphorylated serine 129 of Alpha Synuclein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Bovine, Dog, Human, Mouse, Primates
Conjugate	Unconjugated

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Applications	WB
Format	Purified IgG - liquid
Size	100 μΙ
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Snca synuclein, alpha (non A4 component of amyloid precursor) [Rattus norvegicus (Norway rat)]
Official Symbol	Snca
Synonyms	SNCA; synuclein, alpha (non A4 component of amyloid precursor); alpha-synuclein; ALPHA SYNUCLEIN;
Entrez Gene ID	<u>29219</u>
Protein Refseq	NP 062042.1
UniProt ID	P37377
Chromosome Location	4q24
Pathway	Alzheimer's disease; Amyloids; Disease; EGFR1 Signaling Pathway; Parkinson's disease;
Function	Hsp70 protein binding; alpha-tubulin binding; arachidonic acid binding