

Synuclein- α (phospho Ser129) Rabbit Polyclonal Antibody



产品详情

产品货号	产品名称	储存条件	保质期
IM51029	Synuclein- α (phospho Ser129) Rabbit Polyclonal Antibody	-20℃	1 年

产品详情:

货号	IM51029
别名	SNCA;NACP;PARK1;Alpha-synuclein;Non-A beta component of AD amyloid;Non-A4 component of amyloid precursor;NACP
产品名称	Synuclein- α (phospho Ser129) Rabbit Polyclonal Antibody
类别	抗体产品
基因名称	SNCA
蛋白名称	Alpha-synuclein
推荐应用	WB, IHC-P, IF-P, IF-F, IF-ICC, ELISA
反应种属	Human, Mouse, Rat
浓度	1mg/ml
存储缓冲液	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N
Human Gene ID	6622
Human Swissprot No	P37840
Mouse Gene ID	20617

Mouse Swissprot No	055042
Rat Gene ID	29219
Rat Swissprot No	P37377
免疫原	The antiserum was produced against synthesized peptide derived from human Synuclein around the phosphorylation site of Ser129. AA range:91-140
特异性	Phospho-Synuclein- α (S129) Polyclonal Antibody detects endogenous levels of Synuclein- α protein only when phosphorylated at S129.
稀释度	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:5000, IF-P/IF-F/IF-ICC 1:50-200
参考分子量	15kDa
运输及保存条件	-20°C/1year
宿主	Rabbit
同种型	Rabbit, IgG
背景介绍	Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Alternatively spliced transcripts encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2016]

组织表达	Highly expressed in presynaptic terminals in the central nervous system. Expressed principally in brain.
细胞定位	Cytoplasm. Membrane. Nucleus. Cell junction, synapse. Secreted. Cell projection, axon. Membrane-bound in dopaminergic neurons (PubMed:15282274). Expressed and colocalized with SEPTIN4 in dopaminergic axon terminals, especially at the varicosities (By similarity).
信号通路	Alzheimer's disease; Parkinson's disease
功能	alternative products: Additional isoforms seem to exist, disease: Brain iron accumulation type 1 (NBIA1, also called Hallervorden-Spatz syndrome), a rare neuroaxonal dystrophy, is histologically characterized by axonal spheroids, iron deposition, Lewy body (LB)-like intraneuronal inclusions, glial inclusions and neurofibrillary tangles. SNCA is found in LB-like inclusions, glial inclusions and spheroids., disease: Defects in SNCA are a cause of autosomal dominant Parkinson disease 1 (PARK1) [MIM:168601, 168600]. Parkinson disease (PD) is a complex, multifactorial disorder that typically manifests after the age of 50 years, although early-onset cases (before 50 years) are known. PD generally arises as a sporadic condition but is occasionally inherited as a simple mendelian trait. Although sporadic and familial PD are very similar, inherited forms of the disease usually begin at earlier ages and are associated with atypical clinical features. PD is characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated protein, s), in surviving neur

功能

ons in various areas of the brain.,disease:Defects in SNCA are the cause of Lewy body dementia (DLB) [MIM:127750].DLB is a neurodegenerative disorder clinically characterized by dementia and parkinsonism,often with fluctuating cognitive function,visual hallucinations,falls, syncopal episodes,and sensitivity to neuroleptic medication.Presence of Lewy bodies are the only essential pathologic features.,disease:Defects in SNCA are the cause of Parkinson disease 4(PARK4) [MIM:605543,168600].,disease:Deposition of fibrillar amyloid proteins intraneuronally as neurofibrillary tangles is characteristic of Alzheimer disease(AD).SNCA is a minor protein found within these deposits, but a major non amyloid component.,domain:The NAC domain isinvolved in the fibril formation.The middle region forms the core of the filaments.The C-terminus may regulate aggregation anddetermine the diameter of the filaments.,function:May be involved in the regulation of dopamine release and transport. Solubleprotein,normally localized primarily at the presynaptic regionof axons,which can form filamentous aggregates that are the major non amyloid component of intracellular inclusions in several neurodegenerative diseases (synucleinopathies).Induces fibrillization of microtubule-associated protein tau.Reduces neuronal responsiveness to various apoptotic stimuli,leading to a decreased caspase-3 activation.,PTM:Hallmark lesions of neurodegenerative synucleinopathies contain alpha-synuclein that is modified by nitration of tyrosine residues and possiblyby dityrosine cross-linking to generated stable oligomers.,PTM:Phosphorylated, predominantly on serine residues. Phosphorylation by CK1 appearsto occur on residues distinct from the residue phosphorylated by other kinases.Phosphorylation of Ser-129 is

功能	selective and extensive in synucleinopathy lesions. In vitro, phosphorylation at Ser-129 promoted insoluble fibril formation. Phosphorylated on Tyr-125 by a PTK2B-dependent pathway upon osmotic stress., PTM: Ubiquitinated. The predominant conjugate is the diubiquitinated form., similarity: Belongs to the synuclein family., subcellular location: Membrane bound in dopaminergic neurons. Also found in the nucleus., subunit: Soluble monomer which can form filamentous aggregates. Interacts with UCHL1 (By similarity). Interacts with phospholipase D and histones., tissue specificity: Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.
纯化	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

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