



Synuclein- α (phospho Ser129) Polyclonal Antibody

Catalog No	YP-Ab-12635
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	SNCA
Immunogen	The antiserum was produced against synthesized peptide derived from human Synuclein around the phosphorylation site of Ser129. AA range:91-140
Specificity	Phospho-Synuclein- α (S129) Polyclonal Antibody detects endogenous levels of Synuclein- α protein only when phosphorylated at S129.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	Alpha synuclein;Alpha-synuclein;isoform NACP14;alphaSYN;MGC15443;MGC11988;MGC12756;MGC64356;NACP;Non A beta component of AD amyloid;Non A4 component of amyloid;Non A4 component of amyloid precursor;Non-A beta component of AD amyloid;Non-A-beta component of alzheimers disease amyloid;precursor of;Non-A4 component of amyloid precursor;Non-A4 component of amyloid;OTTHUMP218549;OTTHUMP218551;OTTHUMP218552;OTTHUMP218553;OTTHUMP218554;PARK 1;PARK 4;PARK1;PARK4;Parkinson disease (autosomal dominant;Lewy body) 4;Parkinson disease familial 1;SNCA;Snca synuclein;alpha (non A4 component of amyloid precursor);SYN;Synuclein alpha;Synuclein alpha 14;Synuclein;SYUA_HUMAN;Synuclein- α
Observed Band	15kD
Calculated Molecular Weight	15kD
Cell Pathway	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). .
Tissue Specificity	Highly expressed in presynaptic terminals in the central nervous system. Expressed principally in brain.



Function

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 an

Background

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],

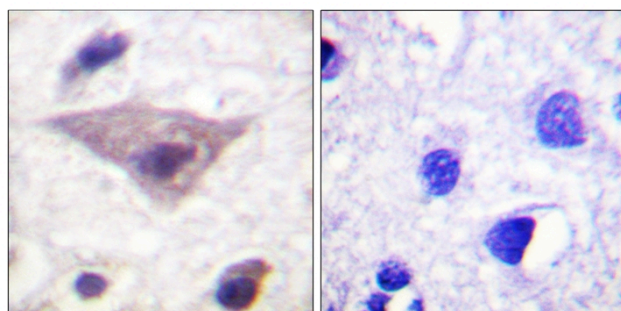
matters needing attention

Avoid repeated freezing and thawing!

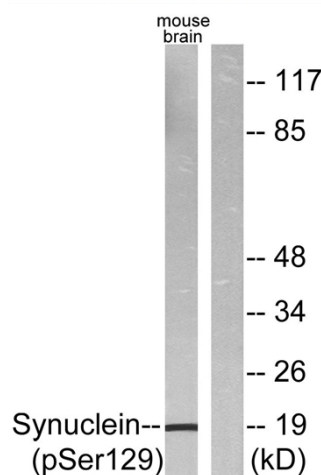
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemistry analysis of paraffin-embedded human brain, using Synuclein (Phospho-Ser129) Antibody. The picture on the right is blocked with the phosphopeptide.



Western blot analysis of lysates from mouse brain, using Synuclein (Phospho-Ser129) Antibody. The lane on the right is blocked with the phosphopeptide.