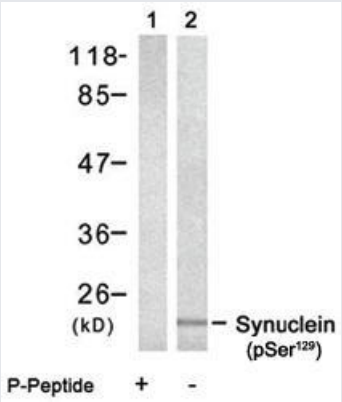
Synuclein, Alpha (SNCA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Synuclein, alpha (SNCA), Polyclonal Antibody
Full Product Name	Synuclein, alpha, phosphorylated (Ser129) (SNCA, 127750, P37840, MGC110988, NACP, PARK1, PARK4, non-A beta Component of AD Amyloid, NACP, Parkinson Disease Familial 1, PD1)
Product Gene Name	anti-SNCA antibody
Product Synonym Names	Anti -Synuclein, alpha, phosphorylated (Ser129) (SNCA, 127750, P37840, MGC110988, NACP, PARK1, PARK4, non-A beta Component of AD Amyloid, NACP, Parkinson Disease Familial 1, PD1)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS (without Mg2+ and Ca2+), pH 7.4, 0.02% sodium azide, 50% glycerol.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes endogenous levels of human alpha-Synuclein only when phosphorylated at serine 129. Species Crossreactivity: mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	14,460 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (90645250..90759447, complement). Location: 4q21
OMIM	127750
3D Structure	ModBase 3D Structure for P37840
Immunogen	Synthetic phosphopeptide derived from human alpha-Synuclein around the phosphorylation site of serine 129 (M-P-SP-E-E).
Product Categories/Family for anti-SNCA antibody	Antibodies; Abs to Synuclein
Applications Tested/Suitable for anti-SNCA antibody	Western Blot (WB)
Application Notes for anti-SNCA antibody	Suitable for use in Western Blot. Dilution: Western Blot: 1:500-1:1000
Related Product Information for anti-SNCA antibody	Alpha Synuclein is a cytoplasmic protein that is predominantly expressed in the central nervous system. It is a precursor of a minor peptide found in amyloid deposition that is a hallmark of Alzheimer's disease. Defects in alpha Synuclein are associated with familial Parkinson's disease.
Other Notes	Small volumes of anti-SNCA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SNCA purchase	MBS626474 is an antibody targeting SNCA. Also known as Synuclein, alpha, phosphorylated (Ser129) (SNCA, 127750, P37840, MGC110988, NACP, PARK1, PARK4, non-A beta Component of AD Amyloid, NACP, Parkinson Disease Familial 1, PD1). Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-SNCA antibody
Western Blot analysis of extract from mouse brain tissue using D9500-27A.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SNCA. It may not necessarily be applicable to this product.

NCBI GI #	16356657
NCBI GeneID	6622
UniProt Primary Accession #	P37840
UniProt Secondary Accession #	Q13701; Q4JHI3; Q6IAU6; A8K2A4
UniProt Related Accession #	P37840; Q4W5L2; Q6QBS3
NCBI Official Full Name	synuclein alpha
NCBI Official Synonym Full Names	synuclein, alpha (non A4 component of amyloid precursor)
NCBI Official Symbol	SNCA
NCBI Official Synonym Symbols	PD1; NACP; PARK1; PARK4; MGC110988
UniProt Protein Name	Alpha-synuclein
UniProt Synonym Protein Names	Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor
Protein Family	Alpha-synuclein
UniProt Gene Name	SNCA
UniProt Synonym Gene Names	NACP; PARK1
UniProt Entry Name	SYUA_HUMAN
NCBI Protein Information	alpha-synuclein; OTTHUMP00000161559; OTTHUMP00000161560; OTTHUMP00000161561; OTTHUMP00000218549; OTTHUMP00000218550; OTTHUMP00000218551; OTTHUMP00000218552; OTTHUMP00000218553; non-A4 component of amyloid; alpha-synuclein, isoform NACP140; non A-beta component of AD amyloid; non-A beta component of AD amyloid; Parkinson disease (autosomal dominant, Lewy body) 4
NCBI Summary for SNCA	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. Four alternatively spliced transcripts encoding two different isoforms have been identified for this gene. [provided by RefSeq]

UniProt Comments for SNCA	SNCA: a member of the synuclein family. Abundantly expressed in the brain. Inhibits phospholipase D2 selectively. May integrate presynaptic signaling and membrane trafficking. Implicated in the pathogenesis of Parkinson's disease. A major component of amyloid plaques in the brains of patients with Alzheimer's disease. Two alternatively spliced isoforms transcripts have been identified. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 4q21 Cellular Component: Golgi apparatus; nuclear outer membrane; mitochondrion; rough endoplasmic reticulum; lysosome; fibril; extracellular region; terminal button; cell cortex; inclusion body; mitochondrial respiratory chain complex I; cytosol; actin cytoskeleton; platelet alpha granule membrane; synaptic vesicle; growth cone; perinuclear region of cytoplasm; axon; cytoplasm; plasma membrane; ribosome; cell junction; nucleus Molecular Function: protein domain specific binding; identical protein binding; zinc ion binding; histone binding; kinesin binding; microtubule binding; ferrous iron binding; caspase inhibitor activity; magnesium ion binding; beta-tubulin binding; phosphoprotein binding; protein N-terminus binding; oxidoreductase activity; Hsp70 protein binding; calcium ion binding; dynein binding; protein binding; copper ion binding; phospholipase binding; phospholipid binding; tau protein binding; fatty acid binding; alpha-tubulin binding Biological Process: regulation of long-term neuronal synaptic plasticity; negative regulation of serotonin uptake; regulation of acyl-CoA biosynthetic process; adult locomotory behavior; positive regulation of apoptosis; negative regulation of norepinephrine uptake; mitochondrial membrane organization and biogenesis; microglial cell activation; positive regulation of endocytosis; response to lipopolysaccharide; dopamine biosynthetic process; negative regulation of monooxygenase activity; negative regulation of transcription from RNA polymerase II promoter; negative regulation of caspase activity; fatty acid metabolic process; regulation of dopamine secretion; positive regulation of neurotransmitter secretion; negative regulation of dopamine uptake; negative regulation of histone acetylation; calcium ion homeostasis; response to magnesium ion; negative regulation of exocytosis; negative regulation of protein amino acid phosphorylation; behavioral response to cocaine; receptor internalization; phospholipid metabolic process; fibril organization and biogenesis; synapse organization and biogenesis; dopamine uptake; response to iron(II) ion; negative regulation of neuron apoptosis; positive regulation of receptor recycling; aging; response to drug; caspase activation; neutral lipid metabolic process; protein destabilization; regulation of macrophage activation; regulation of glutamate secretion; negative regulation of microtubule polymerization; positive regulation of peptidyl-serine phosphorylation; organelle ATP synthesis coupled electron transport; negative regulation of dopamine metabolic process; regulation of locomotion; synaptic vesicle endocytosis; positive regulation of release of sequestered calcium ion into cytosol; regulation of excitatory postsynaptic membrane potential; negative regulation of transporter activity; negative regulation of apoptosis Disease: Parkinson Disease 4, Autosomal Dominant; Parkinson Disease 1, Autosomal Dominant; Dementia, Lewy Body
Research Articles on SNCA	**1.** Data suggest that membrane lipid modification in oligodendroglial cells containing SUMO-1 promotes the formation of alpha-synuclein inclusion bodies resembling protein aggregates in neurodegenerative disease.
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