Synuclein Alpha (SNCa) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Synuclein Alpha (SNCa), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Synuclein Alpha (SNCa)
Product Gene Name	anti-SNCa antibody
Product Synonym Names	SNC-A; aSYN; PD1; PARK1; PARK4; NACP; Non-A Beta Component Of Alzheimer's Disease Amyloid Precursor Protein; Non-A4 component of amyloid precursor
Immunogen Sequence	Lys23~Ala1 40
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a Rabbit polyclonal antibody raised against SNCa. It has been selected for its ability to recognize SNCa in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: SNCa (MBS2007331) FITC Conjugated Antibody: SNCa (MBS2108544)
Matching Pairs	FITC Conjugated Antibody: SNCa (MBS2108544) Immunogen: SNCa (MBS2097570)
OMIM	127750
3D Structure	ModBase 3D Structure for P37840
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	FITC
Cross Reactivity	Human
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-SNCa antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Related Product Information for anti-SNCa antibody	MBS2108544 is an antibody targeting SNCa. Also known as FITC-Linked Polyclonal Antibody to Synuclein Alpha (SNCa). Reactive in Human, Mouse, Rat. Host: Rabbit.

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.

ADDITIONAL DETAILS

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

NCBI GI #	4507109
NCBI GeneID	6622
NCBI Accession #	NP_000336.1
UniProt Primary Accession #	P37840
UniProt Related Accession #	P37840
GenBank Nucleotide #	NM_000345.3
NCBI Official Full Name	alpha-synuclein isoform NACP140
NCBI Official Synonym Full Names	synuclein alpha
NCBI Official Symbol	SNCA
NCBI Official Synonym Symbols	PD1; NACP; PARK1; PARK4
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; NACP
UniProt Entry Name	SYUA_HUMAN
NCBI Protein Information	alpha-synuclein
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. Alternatively spliced transcripts encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2016]

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; rough endoplasmic reticulum; mitochondrion; lysosome; extracellular region; fibril; terminal button; cell cortex; inclusion body; cytosol; mitochondrial respiratory chain complex I; actin cytoskeleton; synaptic vesicle; platelet alpha granule membrane; growth cone; perinuclear region of cytoplasm; axon; cytoplasm; plasma membrane; ribosome; cell junction; nucleus Molecular Function: protein domain specific binding; identical protein binding; histone binding; zinc ion 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; phospholipase binding; copper ion binding; phospholipid binding; fatty acid binding; tau protein binding; alpha-tubulin binding Biological Process: regulation of acyl-CoA biosynthetic process; adult locomotory behavior; positive regulation of apoptosis; positive regulation of endocytosis; response to lipopolysaccharide; dopamine biosynthetic process; positive regulation of neurotransmitter secretion; calcium ion homeostasis; response to magnesium ion; fibril organization and biogenesis; synapse organization and biogenesis; dopamine uptake; negative regulation of neuron apoptosis; response to drug; negative regulation of dopamine metabolic process; synaptic vesicle endocytosis; negative regulation of transporter activity; negative regulation of apoptosis; regulation of long-term neuronal synaptic plasticity; negative regulation of serotonin uptake; mitochondrial membrane organization and biogenesis; negative regulation of norepinephrine uptake; microglial cell activation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of caspase activity; negative regulation of monooxygenase activity; fatty acid metabolic process; regulation of dopamine secretion; negative regulation of dopamine uptake; negative regulation of histone acetylation; negative regulation of exocytosis; negative regulation of protein amino acid phosphorylation; behavioral response to cocaine; phospholipid metabolic process; receptor internalization; response to iron(II) ion; positive regulation of receptor recycling; aging; 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; regulation of locomotion; positive regulation of release of sequestered calcium ion into cytosol; regulation of excitatory postsynaptic membrane potential Disease: Parkinson Disease 4, Autosomal Dominant; Parkinson Disease 1, Autosomal Dominant; Dementia, Lewy Body
Research Articles on SNCa	**1.** Study shows that 14-3-3 protein sigma isoform co-localizes with phosphorylated alpha-synuclein in Lewy bodies and Lewy neurites in patients with Lewy body disease.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/synuclein-alpha-snca/2108544