Alpha-Synuclein (SNCA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Alpha-synuclein (Snca), Polyclonal Antibody
Full Product Name	Rabbit anti-rat Alpha-synuclein polyclonal Antibody
Product Gene Name	anti-Snca antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: Snca (MBS1489357) FITC Conjugated Antibody: Snca (MBS1489680)
Matching Pairs	Unconjugated Antibody: Snca (MBS1489357) HRP Conjugated Antibody: Snca (MBS1490529)
Matching Pairs	Unconjugated Antibody: Snca (MBS1489357) Biotin Conjugated Antibody: Snca (MBS1490742)
Molecular Weight	4,354 Da
3D Structure	ModBase 3D Structure for P37377
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Non-conjugated
Immunogen	Recombinant rat Alpha-synuclein protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Snca antibody	ELISA (EIA)
Related Product Information for anti-Snca antibody	MBS1489357 is an antibody targeting Snca. Also known as Rabbit anti-rat Alpha-synuclein polyclonal Antibody. Reactive in Rat. Host: Rabbit. May be involved in the regulation of dopamine release and transport.
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 #	9507125
NCBI GeneID	29219
NCBI Accession #	NP_062042.1

UniProt Primary Accession #	P37377
UniProt Secondary Accession #	P37378; Q53YM9
UniProt Related Accession #	P37377
GenBank Nucleotide #	NM_019169.2
NCBI Official Full Name	alpha-synuclein
NCBI Official Synonym Full Names	synuclein alpha
NCBI Official Symbol	Snca
UniProt Protein Name	Alpha-synuclein
Protein Family	Alpha-synuclein
UniProt Gene Name	Snca
UniProt Entry Name	SYUA_RAT
NCBI Protein Information	alpha-synuclein
NCBI Summary for Snca	may play a role in regulation of synaptic vesicle biogenesis and organization; may be involved in neurotransmission [RGD, Feb 2006]
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 Cellular Component: actin cytoskeleton; axon; cell cortex; cell junction; cytoplasm; cytoplasmic vesicle membrane; cytoskeleton; cytosol; extracellular space; fibril; Golgi apparatus; growth cone; inclusion body; intracellular membrane-bound organelle; membrane; mitochondrion; nerve terminal; nuclear outer membrane; nucleus; perinuclear region of cytoplasm; plasma membrane; platelet alpha granule membrane; ribosome; rough endoplasmic reticulum; synapse; synaptic vesicle; terminal button Molecular Function: alpha-tubulin binding; arachidonic acid binding; beta-tubulin binding; calcium ion binding; caspase inhibitor activity; copper ion binding; dynein binding; enzyme binding; fatty acid binding; ferrous iron binding; histone binding; identical protein binding; kinesin binding; magnesium ion binding; microtubule binding; oxidoreductase activity; phospholipase binding; phospholipid binding; phosphoprotein binding; protein binding; protein domain specific binding; protein N-terminus binding; tau protein binding; zinc ion binding Biological Process: adult locomotory behavior; aging; behavioral response to cocaine; calcium ion homeostasis; caspase activation; dopamine biosynthetic process; dopamine metabolic process; fatty acid metabolic process; microglial cell activation; mitochondrial membrane organization and biogenesis; negative regulation of apoptosis; negative regulation of caspase activity; negative regulation of dopamine metabolic process; negative regulation of dopamine uptake; negative regulation of exocytosis; negative regulation of histone acetylation; negative regulation of microtubule polymerization; negative regulation of monooxygenase activity; negative regulation of neuron apoptosis; negative regulation of norepinephrine uptake; negative regulation of protein amino acid phosphorylation; negative regulation of serotonin uptake; negative regulation of transporter activity; neutral lipid metabolic process; organelle ATP synthesis coupled electron transport; phospholipid metabolic process; positive regulation of endocytosis; positive regulation of neurotransmitter secretion; positive regulation of peptidyl-serine phosphorylation; positive regulation of receptor recycling; positive regulation of release of sequestered calcium ion into cytosol; positive regulation of synaptic transmission; protein destabilization; receptor internalization; regulation of acyl-CoA biosynthetic process; regulation of dopamine secretion; regulation of excitatory postsynaptic membrane potential; regulation of glutamate secretion; regulation of locomotion; regulation of long-term neuronal synaptic plasticity; regulation of macrophage activation; regulation of neuron apoptosis; regulation of neuronal synaptic plasticity; regulation of neurotransmitter secretion; response to cocaine; response to drug; response to iron(II) ion; response to lipopolysaccharide; response to magnesium ion; synapse organization and biogenesis; synaptic transmission; synaptic transmission, dopaminergic; synaptic vesicle endocytosis; synaptic vesicle transport
Research Articles on Snca	**1.** Mitochondrial impairment disturbs the autophagic flux and leads to the accumulation of exogenously applied alpha-synuclein

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