

SNCA / Alpha-Synuclein Antibody (aa91-140)
Rabbit Polyclonal Antibody
Catalog # ALS15066**Specification**

SNCA / Alpha-Synuclein Antibody (aa91-140) - Product Information

Application	WB, IHC
Primary Accession	P37840
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14kDa KDa

SNCA / Alpha-Synuclein Antibody (aa91-140) - Additional Information**Gene ID** 6622**Other Names**

Alpha-synuclein, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, NACP, SNCA, NACP, PARK1

Target/Specificity

Synuclein Antibody detects endogenous levels of total Synuclein protein.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

SNCA / Alpha-Synuclein Antibody (aa91-140) is for research use only and not for use in diagnostic or therapeutic procedures.

SNCA / Alpha-Synuclein Antibody (aa91-140) - Protein Information**Name** SNCA**Synonyms** NACP, PARK1**Function**

Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release (PubMed:28288128, PubMed:30404828, PubMed:20798282, PubMed:26442590). Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores (PubMed:28288128, PubMed:30404828). Mechanistically, acts by increasing local Ca(2+) release from

microdomains which is essential for the enhancement of ATP-induced exocytosis (PubMed:30404828). Acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5 (PubMed:20798282). This chaperone activity is important to sustain normal SNARE-complex assembly during aging (PubMed:20798282). Also plays a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity (PubMed:26442590).

Cellular Location

Cytoplasm. Membrane. Nucleus. Synapse Secreted. Cell projection, axon {ECO:0000250|UniProtKB:O55042}. Note=Membrane-bound in dopaminergic neurons (PubMed:15282274). Expressed and colocalized with SEPTIN4 in dopaminergic axon terminals, especially at the varicosities (By similarity). {ECO:0000250|UniProtKB:O55042, ECO:0000269|PubMed:15282274}

Tissue Location

Highly expressed in presynaptic terminals in the central nervous system. Expressed principally in brain

Volume

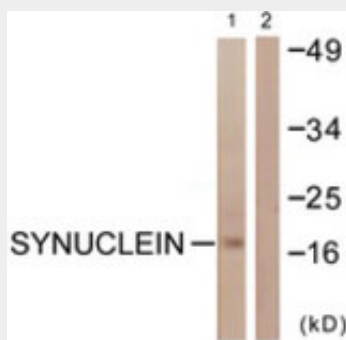
50 µl

SNCA / Alpha-Synuclein Antibody (aa91-140) - Protocols

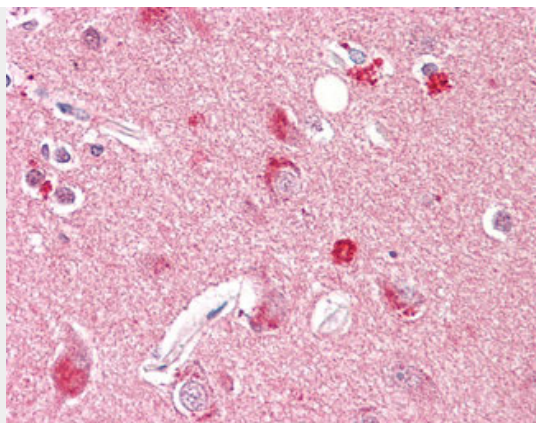
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SNCA / Alpha-Synuclein Antibody (aa91-140) - Images



Western blot of extracts from HUVEC cells, using Synuclein Antibody.



Anti-SNCA / Alpha-Synuclein antibody IHC of human brain, cortex.

SNCA / Alpha-Synuclein Antibody (aa91-140) - Background

May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation.

SNCA / Alpha-Synuclein Antibody (aa91-140) - References

Ueda K.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:11282-11286(1993).
Campion D.,et al.Genomics 26:254-257(1995).
Ueda K.,et al.Biochem. Biophys. Res. Commun. 205:1366-1372(1994).
Xia Y.,et al.Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases.
Touchman J.W.,et al.Genome Res. 11:78-86(2001).