

SNCA Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5309

Specification

SNCA Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P37840
Reactivity	Human, Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=14,13;M=14;Ra t=15 KDa
Isotype	Rabbit Ig
Antigen Source	HUMAN

SNCA Antibody (C-term) - Additional Information

Gene ID 6622

Antigen Region
92-125

Other Names

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

Dilution

WB~~1:1000
IHC-P~~1:25
FC~~1:25

Target/Specificity

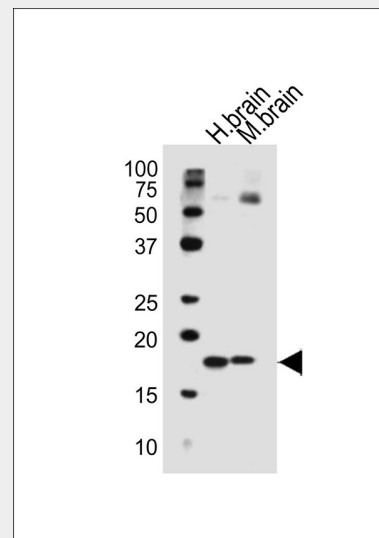
This SNCA antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 92-125 amino acids from the C-terminal region of human SNCA.

Format

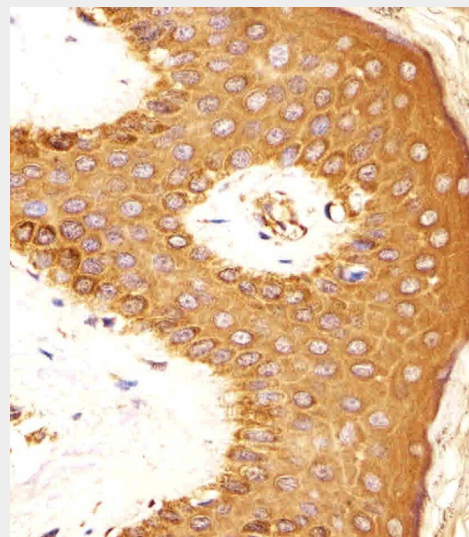
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C



Western blot analysis of lysates from human brain, mouse brain tissue lysate (from left to right), using SNCA Antibody (C-term)(Cat. #AW5309). AW5309 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



AW5309 staining SNCA in Human skin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with

in small aliquots to prevent freeze-thaw cycles.

Precautions

SNCA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SNCA Antibody (C-term) - Protein Information

Name SNCA

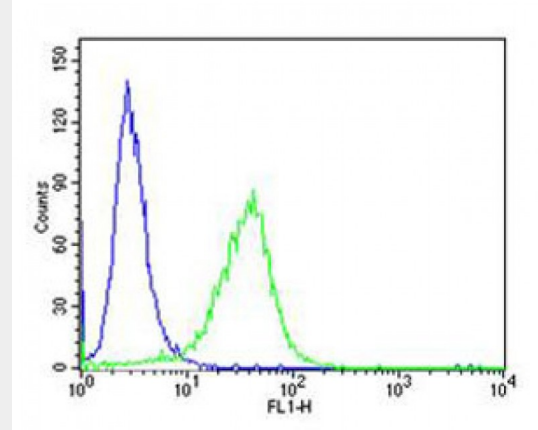
Synonyms NACP, PARK1

Function

Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. 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). Plays also 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

formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Flow cytometric analysis of HeLa cells using SNCA Antibody (C-term)(green, Cat#AW5309) compared to an isotype control of rabbit IgG(blue). AW5309 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

SNCA Antibody (C-term) - 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 Antibody (C-term) - 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).

Cytoplasm. Membrane. Nucleus. Cell junction, synapse. Secreted
Note=Membrane-bound in dopaminergic neurons

Tissue Location

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

SNCA Antibody (C-term) - 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](#)