

Anti-Alpha Synuclein Antibody



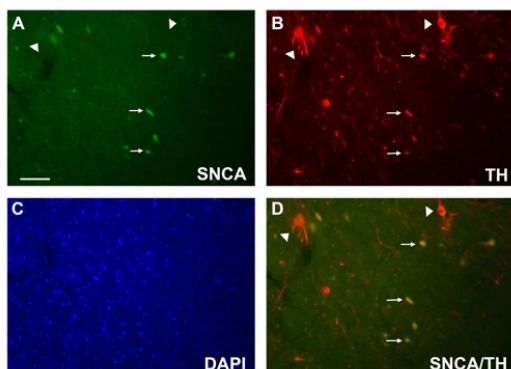
Product Details

Available Variants	100 µL (SKU:SNCA-1010)
Isotype	IgY
Gene Name	SNCA, NACP, PARK1
Host Species	Chicken
Concentration	10 mg/mL
Format	IgY Fraction
Physical State	Liquid
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with sodium azide (0.02%, w/v) added as a preservative.
Production Notes	Chickens were immunized with recombinant human α -synuclein protein (expressed in bacteria). After repeated injections, immune eggs were collected, the IgY fractions were purified from the yolks, and the IgY concentration adjusted to 10 mg/ml. Finally, the antibody preparation was filter-sterilized.
Applications	ICC, IF, IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:100-1:500 ICC: 1:100-1:500
Species Reactivity	Human, Mouse, Rat
Immunogen	Full-length human alpha-synuclein (UniProtKB - P37840) produced in E.Coli.
Molecular Weight	14 kDa
Quality Control	Antibodies were analyzed by western blot analysis (1:2500 dilution) on rat brain lysate and immunohistochemistry (1:200 dilution) on substantia nigra sections from a Parkinson's Disease patient's brain. Western blots were performed using BlokHen® (Aves Labs) as the blocking reagent, and HRP-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# H-1004) as the detection reagent.

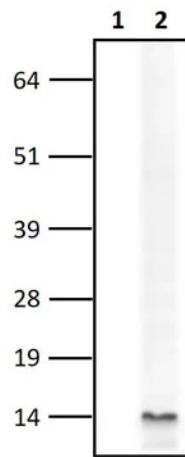
Immunohistochemistry used FITC-conjugated goat anti-chicken IgY (AvesLabs Cat. # F-1005).

Storage	Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody.
Antibody Registry ID	AB_2827809
UniProt ID	P37840
Country of Origin	United States
Shipping	Ice packs
Expiration	12 months from receipt of product
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
Entrez Gene Details	Entrez Gene Summary: 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's 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.

Product Images



Chicken anti-SNCA (green) and TH (red) double immunostaining in Parkinson's Disease patient's substantia nigra section. Arrows indicate SNCA positive, degenerating dopamine neurons. Arrowheads indicate SNCA negative, healthy dopamine neurons. Bar = 50 um for A-D. (Image courtesy of Dr. Curt Freed's lab, University of Colorado Anschutz Medical Campus.)



Rat brain lysate was probed with no primary antibody as a control (Lane 1) or with a 1:2,500 dilution of Chicken anti-SNCA IgY (Lane 2).

Product Page URL: www.antibodiesinc.com/products/anti-alpha-synuclein-antibody-snca-1010



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