

## Product Datasheet

# Anti-Alpha Synuclein Antibody FL490 Conjugate



## Overview

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<b>Catalog #</b>	77-521-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	6113-62
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A Chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Human, Mouse, Non-Human Primate, and Rat
<b>Immunogen</b>	Full length human alpha-synuclein (accession number P37840) produced recombinantly in E. coli.
<b>Molecular Weight</b>	18 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 77-521-FL490, RRID: AB_2940708

## Details

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**Target Description** Alpha-synuclein (SNCA), also known as PARK1, NACP, PARK4, is a member of the synuclein family, which also includes beta- and gamma-synuclein. Alpha-synuclein is a highly conserved protein known to be abundant in neurons and especially presynaptic terminals where it serves multiple roles including regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. Functionally, alpha-synuclein has been implicated in synaptic plasticity (Liu 2004) and the assembly of snare complexes (Burre 2010) and it is known to be associated with various neuropathologies including Parkinson's Disease, Lewy Body Dementia, and Alzheimer's Disease, where it forms insoluble protein aggregates. Early studies of amyloid deposits in the brains of Alzheimer's patients revealed two previously uncharacterized peptides in addition to the amyloid beta fragment (Ueda 1993), both of which were found to correspond to alpha-synuclein (SNCA). Later studies confirmed that aggregated alpha-synuclein proteins are present in brain lesions (Lewy bodies) that are hallmarks of neurodegenerative synucleinopathies and that alpha-synuclein likely plays a role in the pathogenesis of Parkinson's disease, Lewy body dementia, and Alzheimer's disease among other neuropathologies. The SNCA antibody was raised against full-length human alpha-synuclein and recognizes endogenous levels of alpha-synuclein in brain by Western blot and immunohistochemistry.

**Specificity** No cross-reactivity reported

<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
<b>Quality Control Tests</b>	Each new lot of this antibody is tested to confirm that it recognizes a single immunoreactive band of expected molecular weight when used in Western blot on lysate from rat whole brain.
<b>Storage</b>	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

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