

**Alpha Synuclein Antibody**  
**Alpha Synuclein Antibody, Clone 3C11**  
**Catalog # ASM10655****Specification**

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**Alpha Synuclein Antibody - Product Information**

Primary Accession	<a href="#">P37840</a>
Other Accession	<a href="#">NP_000336.1</a>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
<b>Target/Specificity</b>	
Alpha Synuclein	

**Other Names**

Alpha Synuclein Antibody, Non-A beta component of AD amyloid Antibody, Non-A4 component of amyloid precursor Antibody, NACP Antibody, SNCA Antibody, PARK1 Antibody, PARK 1 Antibody, alphaSYN Antibody, PARK 4 antibody, PARK4 antibody, Parkinson disease familial 1 antibody, Parkinson disease (autosomal dominant, Lewy body) 4 antibody, SYN antibody

**Immunogen**

Human alpha synuclein monomer

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH 7.4, 50% glycerol, 0.09% Sodium azide \*Storage buffer may change when conjugated

Shipping Temperature

**Blue Ice or 4°C**

**Certificate of Analysis**

A 1:1000 dilution of SMC-530 was sufficient for detection of Alpha Synuclein in 15 µg of human brain cell lysate by ECL immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Cytoplasm | Cytosol | Membrane | Nucleus | Cell Junction | Synapse

**Alpha Synuclein Antibody - 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](#)

## **Alpha Synuclein Antibody - Images**

### **Alpha Synuclein Antibody - Background**

Alpha-Synuclein (SNCA) is expressed predominantly in the brain, where it is concentrated in presynaptic nerve terminals (1). Alpha-synuclein is highly expressed in the mitochondria of the olfactory bulb, hippocampus, striatum and thalamus (2). Functionally, it has been shown to significantly interact with tubulin (3), and may serve as a potential microtubule-associated protein. It has also been found to be essential for normal development of the cognitive functions; inactivation may lead to impaired spatial learning and working memory (4). SNCA fibrillar aggregates represent the major non A-beta component of Alzheimer's disease amyloid plaque, and a major component of Lewy body inclusions, and Parkinson's disease. Parkinson's disease (PD) is a common neurodegenerative disorder characterized by the progressive accumulation in selected neurons of protein inclusions containing alpha-synuclein and ubiquitin (5, 6).

### **Alpha Synuclein Antibody - References**

1. "Genetics Home Reference: SNCA". US National Library of Medicine. (2013).
2. Zhang L., et al. (2008) Brain Res. 1244: 40-52.
3. Alim M.A., et al. (2002) J Biol Chem. 277(3): 2112-2117.
4. Kokhan V.S., Afanasyeva M.A., Van'kin G. (2012) Behav. Brain. Res. 231(1): 226-230.
5. Spillantini M.G., et al. (1997) Nature. 388(6645): 839-840.
6. Mezey E., et al. (1998) Nat Med. 4(7): 755-757.