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

Specification

Alpha Synuclein Antibody - Product Information

Primary Accession	P37840
Other Accession	NP_000336.1
Host	Mouse
Clonality	Monoclonal

Target/Specificity
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	-20ºC

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

Shipping Temperature	Blue Ice or 4ºC

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 Cytomety

- 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 Alzheimers 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.