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Alpha Synuclein Antibody (pSer129)

Alpha Synuclein Antibody (pSer129), Clone J18

Catalog # ASM10689

Specification

Alpha Synuclein Antibody (pSer129) - Product Information

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

Target/Specificity
Alpha Synuclein (pSer129)

Other Names
Phosphorylated alpha synuclein antibody, Phospho anti-alpha Synuclein (S129) antibody, Alpha-synuclein (phospho S129) antibody, alpha Synuclein (phospho Ser129) antibody, alpha-Synuclein Phospho Ser129 Antibody, phospho-α-Synuclein (Ser129) Antibody, Alpha synuclein antibody, Alpha synuclein antibody phospho Serine 129, Alpha synuclein antibody phospho Ser 129, Alpha synuclein antibody pSerine 129, Alpha synuclein antibody pSer 129, Alpha synuclein antibody phosphoSer 129, Alpha-synuclein antibody, Alpha-synuclein, isoform NACP140 antibody, alphaSYN antibody, NACP antibody, Non A beta component of AD amyloid antibody, Non A4 component of amyloid antibody, Non A4 component of amyloid precursor antibody, Non-A beta component of AD amyloid antibody, Non-A-beta component of alzheimers disease amyloid , precursor of antibody, Non-A4 component of amyloid precursor antibody, Non-A4 component of amyloid, precursor of antibody, PARK 1 antibody, PARK 4 antibody, PARK1 antibody, PARK4 antibody, Parkinson disease (autosomal dominant, Lewy body) 4 antibody, Parkinson disease familial 1 antibody, SNCA antibody, alpha (non A4 component of amyloid precursor) antibody, SYN antibody, Synuclein alpha antibody, Synuclein alpha 140 antibody, Synuclein, alpha (non A4 component of amyloid precursor) antibody, SYUA_HUMAN antibody

Immunogen
Human alpha synuclein AA 124-134: AYEMP-pS-EEGYQ-Cys

Purification
Affinity 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 1:500 dilution of SMC-600 was sufficient for detection of Alpha Synuclein pSer129 in 10 µg of Mouse Brain by ECL immunoblot analysis using Goat Anti-Rabbit IgG:HRP as the secondary antibody.

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

Alpha Synuclein Antibody (pSer129) - 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 (pSer129) - Images

Alpha Synuclein Antibody (pSer129) - 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 phosphorylated at serine 129 constitutes 90% of the alpha synuclein found in Lewy bodies (7, 8).

Alpha Synuclein Antibody (pSer129) - 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.
7. Fujiwara H., et al. (2002) Nat Cell Biol. 4(2):160-4.
8. Anderson J.P., et al. (2006) J Biol Chem. 281(40):29739-52.