



Mouse (monoclonal) Anti-Human α -Synuclein

PRODUCT ANALYSIS SHEET

Catalog Number:	AHB0261
Lot Number:	See product label
Quantity:	0.1 mg/0.2 mL
Clone Number:	Syn 211
Isotype:	IgG1
Form of Antibody:	Purified immunoglobulin in phosphate buffered saline, pH 7.2, with 0.1% BSA.
Preservation:	0.1% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	Purified from ascites by Protein A/G affinity chromatography.
Immunogen:	Recombinant human α -synuclein.
Specificity:	This antibody recognizes the 19 kDa protein, α -synuclein, which belongs to a family of small cytoplasmic proteins expressed predominantly in neurons. The epitope maps to amino acid residues 121-125 of human α -synuclein. α -synuclein may be involved in neuronal plasticity and could act as a molecular chaperone that mediates the transformation of soluble A β into insoluble amyloid. The protein is a major component of Lewy bodies, the pathological hallmark of Parkinson's disease, and is also observed in senile plaques of Alzheimer's disease patients. Human α -synuclein appears to be phosphorylated at two major sites, serine 129 and serine 87, and phosphorylation may play a role in the functional regulation of the protein.
Species Reactivity:	Human. Does not cross-react with mouse or rat. Other species were not tested.
Applications:	This antibody is suitable for ELISA, for immunohistochemistry with formalin-fixed paraffin sections, and for Western blotting.
Suggested Working Dilutions:	For Western blotting, the recommended antibody concentration is 0.5-1.0 μ g/mL. The optimal concentration should be determined for each specific application.
Recommended Positive Control:	Human SHSY-5Y cells.
Storage:	Store at 2-8°C for up to one month. For long term storage, aliquot into small volumes and store at -20°C. Avoid repeated freeze-thaw cycles to avoid denaturing the antibody.

This product is for research use only. Not for use in diagnostic procedures.

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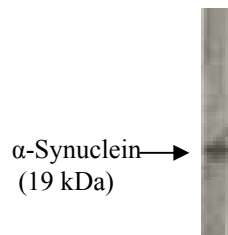
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(Rev 10/08) DCC-08-1089

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References:

- Bruening, W., et al. (2000) Synucleins are expressed in the majority of breast and ovarian carcinomas and in preneoplastic lesions of the ovary. *Cancer* 88(9):2154-2163.
- Giasson, B.I., et al. (2000) A panel of epitope-specific antibodies detects protein domains distributed throughout human α -synuclein in Lewy bodies of Parkinson's disease. *J. Neurosci. Res.* 59(4):528-533.
- Giasson, B.I. (2000) Oxidative damage linked to neurodegeneration by selective alpha-synuclein nitration in synucleinopathy lesions. *Science* 290:985-989.
- McLean, P.J., et al. (2000) Membrane association and protein conformation of α -synuclein in intact neurons. *J. Biol. Chem.* 275(12):8812-8816.
- Okochi, M., et al. (2000) Constitutive phosphorylation of the Parkinson's disease associated α -synuclein. *J. Biol. Chem.* 275(1):390-397.



Extracts of SHSY-5Y human neuroblastoma cells were resolved by SDS PAGE and transferred to a PVDF membrane. Membranes were incubated with 1 μ g/mL of the anti- α synuclein antibody (Syn 211). After washing, membranes were incubated with goat F(ab')₂ anti-mouse IgG alkaline phosphatase (cat. # AMI4405) diluted 1:5000 and the membrane was incubated with CDP-substrate using the WesternStar™ method (Tropix). The membrane was then exposed to Kodak BioMax film.

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