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 Aβ 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 µg/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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References:


Extracts of SHSY-5Y human neuroblastoma cells were resolved by SDS PAGE and transferred to a PVDF membrane. Membranes were incubated with 1 µg/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.