**Purified anti-α-Synuclein, aggregated**

**Catalog # / Size:** 847601 / 25 µg  
847602 / 100 µg

**Clone:** Syn-O2  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** Aggregated α-synuclein  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5 mg/ml  
**Storage:** The antibody solution should be stored undiluted between 2°C and 8°C.

**Applications:**

**Applications:** IHC-P - Quality tested  
Dot Blot - Validated

**Recommended Usage:** Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 1.0 - 5.0 µg/ml is suggested. For Dot Blot, a concentration range of 0.5 - 3.0 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** This clone does not cross-react with β- or γ-synucleins using Dot Blot as detection method.

**Application References:**  

**Description:** α-synuclein is expressed principally in the nervous system, but it is also produced in the other tissues, including the skin. In the brain, the protein is primarily neuronal, but it is also present in glia. Neuronal α-synuclein is concentrated in the presynaptic nerve terminals, interacts with plasma membrane phospholipids, and is also present in the nuclei and mitochondria. At least three isoforms of synuclein are produced through alternative splicing. The most common isoform is a 140 amino acid-long transcript. Other isoforms are α-synuclein-126, lacking residues 41-54; and α-synuclein-112, which lacks residues 103-130. α-synuclein’s physiological role is poorly understood, but the protein has been implicated in regulating dopamine release and transport, synaptic vesicle clustering, and functioning as a SNARE-complex chaperone. α-Synuclein fibrils are a major component of the intracellular Lewy bodies that are associated with Parkinson's disease, Lewy body dementia, and multiple system atrophy.

**Other Names:** Synuclein alpha-140, non-A4 component of amyloid, alpha-synuclein, isoform NACP140, non-amyloid beta component (NAP)

**Antigen References:**  

**Related Products:Product**

- **Purified anti-α-Synuclein**  
- **Anti-α-Synuclein**  
- **Purified anti-α-Synuclein**

**Clone**  
- 4D6  
- Syn 204  
- Syn303

**Application**  
- ELISA, WB, IHC  
- ELISA, WB, IP, IHC, IF  
- WB, IHC, IF, EM

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Purified anti-α-Synuclein, 103-108 4B12/Synuclein ELISA, WB, IHC
Purified anti-α-Synuclein, 115-121 LB509 ELISA, WB, IHC
Purified Goat anti-mouse IgG (minimal x-reactivity) Poly4053 ELISA, FC, WB, IHC