

Resource Summary Report

Generated by [NIF](#) on Aug 28, 2026

a-Synuclein

RRID:AB_398108

Type: Antibody

Proper Citation

BD Biosciences Cat# 610787, RRID:AB_398108

Antibody Information

URL: http://antibodyregistry.org/AB_398108

Proper Citation: BD Biosciences Cat# 610787, RRID:AB_398108

Target Antigen: a-Synuclein

Host Organism: mouse

Clonality: monoclonal

Comments: Immunofluorescence, Western blot

Antibody Name: a-Synuclein

Description: This monoclonal targets a-Synuclein

Target Organism: rat, mouse, human

Defining Citation: [PMID:17120294](#), [PMID:23643841](#), [PMID:23537934](#)

Antibody ID: AB_398108

Vendor: BD Biosciences

Catalog Number: 610787

Record Creation Time: 20250820T014517+0000

Record Last Update: 20250820T114620+0000

Ratings and Alerts

No rating or validation information has been found for a-Synuclein.

No alerts have been found for a-Synuclein.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 76 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Gong F, et al. (2026) Calcium overload induced mitochondrial and lysosomal dysfunction is regulated by Tousled-like kinase in a-synucleinopathy. *Cell death & disease*, 17(1), 10.

Fricke M, et al. (2026) Knockout of the LRRK2-counteracting RAB phosphatase PPM1H disrupts axonal autophagy and exacerbates alpha-synuclein aggregation. *Cell reports*, 45(6), 117364.

Ghirotto B, et al. (2026) TNF alpha unmasks enteric malate aspartate shuttle dysfunction bridging Parkinson disease and intestinal inflammation. *Nature communications*, 17(1).

Spencer B, et al. (2026) Systemic delivery of anti-sense oligonucleotide targeting ?-synuclein for treatment in a mouse model of multiple system atrophy. *Frontiers in aging neuroscience*, 18, 1807721.

Luo H, et al. (2026) Low-density lipoprotein receptor-related protein 1 mediates ?-synuclein transmission from the striatum to the substantia nigra in animal models of Parkinson's disease. *Neural regeneration research*, 21(4), 1595.

Ryan JJ, et al. (2026) High-throughput screening approach identifies substrate-selective Hsp104 variants that counter amyloid seeding with diminished off-target effects. *Molecular cell*, 86(10), 2012.

Ahammad RU, et al. (2026) Peptide-mediated delivery of an ?-synuclein-targeting antisense oligonucleotide: Pharmacokinetics, safety, and central nervous system efficacy in a synucleinopathy model. *Drug metabolism and disposition: the biological fate of chemicals*, 54(6), 100304.

Liao SC, et al. (2025) CHCHD2 mutant mice link mitochondrial deficits to PD pathophysiology. *Science advances*, 11(46), eadu0726.

Stykel MG, et al. (2025) G6PD deficiency triggers dopamine loss and the initiation of Parkinson's disease pathogenesis. *Cell reports*, 44(1), 115178.

Chatterjee T, et al. (2025) Myeloid FtH Regulates Macrophage Response to Kidney Injury by Modulating Snca and Ferroptosis. *bioRxiv : the preprint server for biology*.

Lee SH, et al. (2025) Microglia-driven inflammation induces progressive tauopathies and synucleinopathies. *Experimental & molecular medicine*, 57(5), 1017.

Tullo S, et al. (2025) Female mice exhibit resistance to disease progression despite early pathology in a transgenic mouse model inoculated with alpha-synuclein fibrils.

Communications biology, 8(1), 288.

Parra-Rivas LA, et al. (2025) Protocol for CRISPR-based manipulation and visualization of endogenous α -synuclein in cultured mouse hippocampal neurons. STAR protocols, 6(3), 103945.

Du XY, et al. (2025) Attenuating α -synuclein pathology in mice with in situ engineered astrocytes. Translational neurodegeneration, 14(1), 58.

Wang B, et al. (2025) 14-3-3 σ phosphorylation exacerbates alpha-synuclein aggregation and toxicity. Neurobiology of disease, 206, 106801.

Taguchi K, et al. (2025) SENP2-based N-terminal truncation of α -synuclein in Lewy pathology propagation. iScience, 28(2), 111935.

Schreiber CS, et al. (2025) Intravenous SARS-CoV-2 Spike protein induces neuroinflammation and alpha-Synuclein accumulation in brain regions relevant to Parkinson's disease. Brain, behavior, and immunity, 129, 102.

Chakraborty P, et al. (2025) Genetic evidence for a functional association between Parkinson's disease proteins leucine-rich repeat kinase 2 and α -synuclein during axonal transport. Frontiers in molecular neuroscience, 18, 1667839.

Choi SG, et al. (2025) Proximity proteomics reveals unique and shared pathological features between multiple system atrophy and Parkinson's disease. Acta neuropathologica communications, 13(1), 65.

Gao V, et al. (2025) Synaptic vesicle-omics in mice captures signatures of aging and synucleinopathy. Nature communications, 16(1), 4079.