

Resource Summary Report

Generated by [RRID](#) on Aug 10, 2026

Rabbit Anti-alpha-Synuclein XP??? Monoclonal Antibody, Unconjugated, Clone D37A6

RRID:AB_1904156

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 4179, RRID:AB_1904156

Antibody Information

URL: http://antibodyregistry.org/AB_1904156

Proper Citation: Cell Signaling Technology Cat# 4179, RRID:AB_1904156

Target Antigen: alpha-Synuclein

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP, IHC-P, IF-F. Consolidation on 11/2018: AB_10484828, AB_10839126, AB_1904156.

Antibody Name: Rabbit Anti-alpha-Synuclein XP??? Monoclonal Antibody, Unconjugated, Clone D37A6

Description: This monoclonal targets alpha-Synuclein

Target Organism: rat, mouse

Clone ID: Clone D37A6

Antibody ID: AB_1904156

Vendor: Cell Signaling Technology

Catalog Number: 4179

Record Creation Time: 20250820T054408+0000

Record Last Update: 20250820T222028+0000

Ratings and Alerts

No rating or validation information has been found for Rabbit Anti-alpha-Synuclein XP??? Monoclonal Antibody, Unconjugated, Clone D37A6.

No alerts have been found for Rabbit Anti-alpha-Synuclein XP??? Monoclonal Antibody, Unconjugated, Clone D37A6.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

So RWL, et al. (2026) Stochastic misfolding drives the emergence of distinct α -synuclein strains. *Neuron*, 114(11), 1951.

Wang Z, et al. (2026) Ferroplasticity drives social isolation-induced anxiety via a ventral hippocampal iron- α -synuclein axis. *Cell metabolism*, 38(5), 891.

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.

Koszka O, et al. (2026) Dual-action strategy to reprogram chaperone activity for α -synuclein aggregate clearance in Parkinson's disease. *International journal of biological macromolecules*, 347, 150730.

Yao M, et al. (2026) Autism-linked protein POSH balances NMDAR signaling via a self-limiting kinase-scaffold loop. *iScience*, 29(5), 115627.

West S, et al. (2025) Glycine-to-aspartic acid mutation at codon 51 in Snca disrupts the synaptic localisation of α -synuclein and enhances its propensity for synucleinopathy. *Brain communications*, 7(3), fcaf224.

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

Zhang P, et al. (2025) TREM2 deficiency aggravates neuroinflammatory response and cognitive impairment via disease-associated microglia in Parkinson's disease models. *Neurochemistry international*, 191, 106068.

Tieze SM, et al. (2025) Molecular elucidation of brain lipofuscin in aging and Neuronal Ceroid Lipofuscinosis. *Research square*.

Das V, et al. (2025) Hydrophobic residues in the α -synuclein NAC domain drive seed-competent fibril formation and are targeted by peptide inhibitors. *The FEBS journal*.

Hallbeck M, et al. (2024) Accumulation of alpha-synuclein pathology in the liver exhibits post-translational modifications associated with Parkinson's disease. *iScience*, 27(12), 111448.

La Vitola P, et al. (2024) Mitochondrial oxidant stress promotes α -synuclein aggregation and spreading in mice with mutated glucocerebrosidase. *NPJ Parkinson's disease*, 10(1), 233.

Liu Z, et al. (2023) Chronic carbon disulfide exposure induces parkinsonian pathology via α -synuclein aggregation and necrosome complex interaction. *iScience*, 26(10), 107787.

Grochowska KM, et al. (2023) Chaperone-mediated autophagy in neuronal dendrites utilizes activity-dependent lysosomal exocytosis for protein disposal. *Cell reports*, 42(8), 112998.

Peixoto DO, et al. (2023) Increased alpha-synuclein and neuroinflammation in the substantia nigra triggered by systemic inflammation are reversed by targeted inhibition of the receptor for advanced glycation end products (RAGE). *Journal of neurochemistry*.

Gorenberg EL, et al. (2022) Identification of substrates of palmitoyl protein thioesterase 1 highlights roles of depalmitoylation in disulfide bond formation and synaptic function. *PLoS biology*, 20(3), e3001590.

Nemutlu Samur D, et al. (2022) Vortioxetine ameliorates motor and cognitive impairments in the rotenone-induced Parkinson's disease via targeting TLR-2 mediated neuroinflammation. *Neuropharmacology*, 208, 108977.

Gao Q, et al. (2022) Angiotensin-(1-7) reduces α -synuclein aggregation by enhancing autophagic activity in Parkinson's disease. *Neural regeneration research*, 17(5), 1138.

Elfarrash S, et al. (2021) Polo-like kinase 2 inhibition reduces serine-129 phosphorylation of physiological nuclear alpha-synuclein but not of the aggregated alpha-synuclein. *PloS one*, 16(10), e0252635.

Komolov KE, et al. (2021) Structure of a GRK5-Calmodulin Complex Reveals Molecular Mechanism of GRK Activation and Substrate Targeting. *Molecular cell*, 81(2), 323.