Resource Summary Report

Generated by RRID on Aug 10, 2026

alpha-Synuclein (D37A6) XP Rabbit mAb

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 (D37A6) XP Rabbit mAb

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: alpha-Synuclein (D37A6) XP Rabbit mAb

Description: This monoclonal targets alpha-Synuclein (D37A6) XP Rabbit mAb

Target Organism: rat, m, mouse, r

Antibody ID: AB_1904156

Vendor: Cell Signaling Technology

Catalog Number: 4179

Record Creation Time: 20250820T052625+0000

Record Last Update: 20250820T213418+0000

Ratings and Alerts

No rating or validation information has been found for alpha-Synuclein (D37A6) XP Rabbit mAb.

No alerts have been found for alpha-Synuclein (D37A6) XP Rabbit mAb.

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 ?-synuclein strains. Neuron, 114(11), 1951.

Wang Z, et al. (2026) Ferroplasticity drives social isolation-induced anxiety via a ventral hippocampal iron-?-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.

Kosz?a O, et al. (2026) Dual-action strategy to reprogram chaperone activity for ?-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 ?-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 ?-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 ?-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 ?-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 ?-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.