

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://FDILab.org) on Apr 12, 2025

Synapsin-1 (D12G5) XP Rabbit mAb

RRID:AB_2616578

Type: Antibody

Proper Citation

(Cell Signaling Technology Cat# 5297, RRID:AB_2616578)

Antibody Information

URL: http://antibodyregistry.org/AB_2616578

Proper Citation: (Cell Signaling Technology Cat# 5297, RRID:AB_2616578)

Target Antigen: Synapsin-1

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: WB, IP, IHC-P, IF-F

Antibody Name: Synapsin-1 (D12G5) XP Rabbit mAb

Description: This monoclonal targets Synapsin-1

Target Organism: rat, mouse, human

Clone ID: D12G5

Antibody ID: AB_2616578

Vendor: Cell Signaling Technology

Catalog Number: 5297

Record Creation Time: 20231110T071202+0000

Record Last Update: 20241115T110002+0000

Ratings and Alerts

No rating or validation information has been found for Synapsin-1 (D12G5) XP Rabbit mAb.

No alerts have been found for Synapsin-1 (D12G5) XP Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 50 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Eguchi T, et al. (2024) Calcium-binding protein 7 expressed in muscle negatively regulates age-related degeneration of neuromuscular junctions in mice. *iScience*, 27(2), 108997.

Wang L, et al. (2024) Melatonin improves synapse development by PI3K/Akt signaling in a mouse model of autism spectrum disorder. *Neural regeneration research*, 19(7), 1618.

Romito E, et al. (2024) A comprehensive protocol for efficient differentiation of human NPCs into electrically competent neurons. *Journal of neuroscience methods*, 410, 110225.

Sun S, et al. (2024) The MuSK agonist antibody protects the neuromuscular junction and extends the lifespan in C9orf72-ALS mice. *Molecular therapy : the journal of the American Society of Gene Therapy*, 32(7), 2176.

Coulson RL, et al. (2024) Translational modulator ISRIB alleviates synaptic and behavioral phenotypes in Fragile X syndrome. *iScience*, 27(4), 109259.

Sun Z, et al. (2024) Harnessing developmental dynamics of spinal cord extracellular matrix improves regenerative potential of spinal cord organoids. *Cell stem cell*, 31(5), 772.

Le Dréan ME, et al. (2024) The regulation of enteric neuron connectivity by semaphorin 5A is affected by the autism-associated S956G missense mutation. *iScience*, 27(5), 109638.

Li RQ, et al. (2024) Hippocampal warburg effect mediates hydrogen sulfide-ameliorated diabetes-associated cognitive dysfunction: Involving promotion of hippocampal synaptic plasticity. *Neuroscience research*.

Ren SY, et al. (2024) Growth hormone promotes myelin repair after chronic hypoxia via triggering pericyte-dependent angiogenesis. *Neuron*, 112(13), 2177.

Seo JY, et al. (2024) TRPC4 deletion elicits behavioral defects in sociability by dysregulating expression of microRNA-138-2. *iScience*, 27(1), 108617.

Su M, et al. (2024) Synaptic adhesion molecule protocadherin-?C5 mediates ?-amyloid-

induced neuronal hyperactivity and cognitive deficits in Alzheimer's disease. *Journal of neurochemistry*.

Yang Y, et al. (2024) The chromodomain protein CDYL confers forebrain identity to human cortical organoids by inhibiting neuronatin. *Cell reports*, 43(10), 114814.

Jeong S, et al. (2023) Integration of reconfigurable microchannels into aligned three-dimensional neural networks for spatially controllable neuromodulation. *Science advances*, 9(10), eadf0925.

Vanova T, et al. (2023) Cerebral organoids derived from patients with Alzheimer's disease with PSEN1/2 mutations have defective tissue patterning and altered development. *Cell reports*, 42(11), 113310.

Acutain MF, et al. (2023) Reduced expression of GluN2A induces a delay in neuron maturation. *Journal of neurochemistry*.

Moriai H, et al. (2023) Distribution of proteins for synaptic release in nerve endings associated with the trachealis muscle of rats. *Autonomic neuroscience : basic & clinical*, 244, 103042.

He L, et al. (2023) C9orf72 functions in the nucleus to regulate DNA damage repair. *Cell death and differentiation*, 30(3), 716.

Micheva KD, et al. (2023) Developing a Toolbox of Antibodies Validated for Array Tomography-Based Imaging of Brain Synapses. *bioRxiv : the preprint server for biology*.

Ota R, et al. (2023) Cortical projection to the subventricular zone and its effect on adult neurogenesis in mice. *Neuroscience letters*, 799, 137101.

Yamamoto Y, et al. (2023) Three-dimensional architecture of the subepithelial corpuscular nerve ending in the rat epiglottis reconstructed by array tomography with scanning electron microscopy. *The Journal of comparative neurology*, 531(17), 1846.