

Resource Summary Report

Generated by [RRID](#) on Jul 28, 2026

?-Smooth Muscle Actin (D4K9N) XP® Rabbit mAb

RRID:AB_2734735

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 19245, RRID:AB_2734735

Antibody Information

URL: http://antibodyregistry.org/AB_2734735

Proper Citation: Cell Signaling Technology Cat# 19245, RRID:AB_2734735

Target Antigen: ?-Smooth Muscle Actin

Host Organism: rabbit

Clonality: monoclonal

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

Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE

Antibody Name: ?-Smooth Muscle Actin (D4K9N) XP® Rabbit mAb

Description: This monoclonal targets ?-Smooth Muscle Actin

Target Organism: rat, mouse, human

Clone ID: D4K9N

Antibody ID: AB_2734735

Vendor: Cell Signaling Technology

Catalog Number: 19245

Record Creation Time: 20250819T210948+0000

Record Last Update: 20250819T220319+0000

Ratings and Alerts

- Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development <https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

No alerts have been found for ?-Smooth Muscle Actin (D4K9N) XP® Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 119 mentions in open access literature.

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

Chanvillard L, et al. (2026) NNMT inhibition counteracts tubular senescence and fibrosis in early stages of chronic kidney disease. Cell reports, 45(1), 116823.

Zhu J, et al. (2026) Mechanical and cellular response of lenses to acute ocular hypertension: Implications of AQP1 Regulating water transport and Lenses Opacification. Experimental eye research, 110848.

Dunn LN, et al. (2026) Altered hepatic metabolism in Down syndrome. Cell reports, 45(1), 116835.

Mandala A, et al. (2026) Reprogramming offspring liver health: maternal indole supplementation as a preventive strategy against MASLD. EBioMedicine, 123, 106098.

Wu W, et al. (2025) Sweetener aspartame aggravates atherosclerosis through insulin-triggered inflammation. Cell metabolism, 37(5), 1075.

Lata S, et al. (2025) Protocol for 3D multiplexed fluorescent imaging of pulmonary TB lesions using Opal-TSA dyes for signal amplification. STAR protocols, 6(1), 103640.

Lamichhane A, et al. (2025) Targeting CAFs-Mediated Stromal Signaling in a Patient-Derived Organotypic Colorectal Tumor Model. Molecular cancer therapeutics, 24(8), 1265.

Chang J, et al. (2025) Single-cell multi-stage spatial evolutionary map of esophageal carcinogenesis. Cancer cell, 43(3), 380.

Reza MI, et al. (2025) Asthma and inflammation transcriptionally up-regulate the aryl hydrocarbon receptor in airway smooth muscle via p38/JNK-AP1 signalling. British journal of pharmacology.

Li H, et al. (2025) Disrupting AGR2/IGF1 paracrine and reciprocal signaling for pancreatic cancer therapy. *Cell reports. Medicine*, 6(2), 101927.

Shi L, et al. (2025) Identification of novel macrophages and bone morphogenetic protein signals causing ectopic calcification and impairing muscle regeneration. *iScience*, 28(7), 112841.

Kim TY, et al. (2025) Generation of an induced pluripotent stem cell line (PNUYHi003-A) from peripheral blood mononuclear cells of a patient with neuronal intranuclear inclusion disease. *Stem cell research*, 86, 103717.

Valla SA, et al. (2025) Pituitary folliculo-stellate cells modulate tumor vasculature and extracellular matrix composition in experimental lactosomatotropinomas. *Biochemical and biophysical research communications*, 767, 151876.

Lin M, et al. (2025) An induced pluripotent stem cell line (SJTUXHi003-A) derived from a patient with copy number variation in the gene LRP5 causing familial exudative vitreoretinopathy. *Stem cell research*, 90, 103890.

Cao Y, et al. (2025) Structural changes in cerebral microvasculature induced by ferroptosis contribute to blood-brain barrier disruption in Alzheimer's disease: an autopsy study. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(4), e70103.

Zhang Y, et al. (2025) Macropinocytosis maintains CAF subtype identity under metabolic stress in pancreatic cancer. *Cancer cell*, 43(9), 1677.

Jiang Y, et al. (2025) Phosphatase PHLPP1 is an alveolar-macrophage-intrinsic transcriptional checkpoint controlling pulmonary fibrosis. *Cell reports*, 44(3), 115399.

Hank T, et al. (2025) Collagen XVII Promotes Pancreatic Ductal Adenocarcinoma Tumor Growth through Regulation of PIK3R5. *Cancer research communications*, 5(8), 1319.

Zhou L, et al. (2025) Halting hepatocellular carcinoma: Identifying intercellular crosstalk in HBV-driven disease. *Cell reports*, 44(4), 115457.

Liang X, et al. (2025) Depletion of LINC01133 from cancer-associated fibroblasts exacerbates the progression of gastric adenocarcinoma. *iScience*, 28(12), 113886.