

Resource Summary Report

Generated by [NIF](#) on Sep 15, 2026

Tuberin/TSC2 (D93F12) XP Rabbit mAb

RRID:AB_10547134

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 4308, RRID:AB_10547134

Antibody Information

URL: http://antibodyregistry.org/AB_10547134

Proper Citation: Cell Signaling Technology Cat# 4308, RRID:AB_10547134

Target Antigen: TSC2

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP, IF-IC, F

Antibody Name: Tuberin/TSC2 (D93F12) XP Rabbit mAb

Description: This monoclonal targets TSC2

Target Organism: Human, Rat, Monkey, Mouse, Hamster

Clone ID: D93F12

Antibody ID: AB_10547134

Vendor: Cell Signaling Technology

Catalog Number: 4308

Alternative Catalog Numbers: 4308S, 4308T

Record Creation Time: 20231110T071953+0000

Record Last Update: 20260829T202315+0000

Ratings and Alerts

- Head-to-head comparison of available commercial antibodies against Tuberin by immunoblot (Western blot), immunoprecipitation and immunofluorescence. - YCHarOS <https://ycharos.com/>

No alerts have been found for Tuberin/TSC2 (D93F12) XP Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 67 mentions in open access literature.

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

Wang M, et al. (2026) p53 Drives Lung Cancer Regression through a TSC2/TFEB-dependent Senescence Program. Cancer discovery, 16(2), 391.

Hsieh CW, et al. (2026) Graded activation of the CLEAR network through mTORC1 suppression on cargo-harboring lysosomes. Cell reports, 45(4), 117228.

Ngalula S, et al. (2025) TNF- α -Driven Changes in Polarized EGF Receptor Trafficking Facilitate Phosphatidylinositol 3-Kinase/Protein Kinase B Signaling From the Apical Surface of MDCK Epithelial Cells. Traffic (Copenhagen, Denmark), 26(4-6), e70005.

Ping J, et al. (2025) A highland-adaptation variant near MCUR1 reduces its transcription and attenuates erythropoiesis in Tibetans. Cell genomics, 5(3), 100782.

Kurosaki T, et al. (2025) FMRP drives mRNP targets into translationally silenced complexes. Molecular cell, 85(15), 2956.

Cormerais Y, et al. (2025) AKT-mediated phosphorylation of TSC2 controls stimulus- and tissue-specific mTORC1 signaling and organ growth. Developmental cell, 60(19), 2544.

Li S, et al. (2025) Exosomes originating from neural stem cells undergoing necroptosis participate in cellular communication by inducing TSC2 upregulation of recipient cells following spinal cord injury. Neural regeneration research, 20(11), 3273.

Xu C, et al. (2025) YTHDF1 differentiates the contributing roles of mTORC1 in aging. Molecular cell, 85(11), 2194.

Ikeda T, et al. (2025) HUWE1 stimulates mTORC1 activity by enhancing Rheb interaction with mTORC1 and supports de novo pyrimidine synthesis. Cell reports, 44(10), 116382.

Arceneaux JS, et al. (2024) Multiparameter quantitative analyses of diagnostic cells in brain tissues from tuberous sclerosis complex. Cytometry. Part B, Clinical cytometry.

Kim H, et al. (2024) MTOR modulation induces selective perturbations in histone methylation which influence the anti-proliferative effects of mTOR inhibitors. iScience, 27(3), 109188.

You JS, et al. (2024) Leucyl-tRNA Synthetase Contributes to Muscle Weakness through Mammalian Target of Rapamycin Complex 1 Activation and Autophagy Suppression in a Mouse Model of Duchenne Muscular Dystrophy. *The American journal of pathology*, 194(8), 1571.

Sadeghi M, et al. (2024) Biased signaling by mutant EGFR underlies dependence on PKC ? in lung adenocarcinoma. *Cell reports*, 43(12), 115026.

Zhang Z, et al. (2024) Malic enzyme 2 maintains metabolic state and anti-tumor immunity of CD8+ T cells. *Molecular cell*, 84(17), 3354.

Ling H, et al. (2024) HDAC10 inhibition represses melanoma cell growth and BRAF inhibitor resistance via upregulating SPARC expression. *NAR cancer*, 6(2), zcae018.

Zhu M, et al. (2024) PKD1 mutant clones within cirrhotic livers inhibit steatohepatitis without promoting cancer. *Cell metabolism*, 36(8), 1711.

Festa BP, et al. (2023) Microglial-to-neuronal CCR5 signaling regulates autophagy in neurodegeneration. *Neuron*, 111(13), 2021.

Riley VA, et al. (2023) Tsc2 coordinates neuroprogenitor differentiation. *iScience*, 26(12), 108442.

Winden KD, et al. (2023) Increased degradation of FMRP contributes to neuronal hyperexcitability in tuberous sclerosis complex. *Cell reports*, 42(8), 112838.

Dusing M, et al. (2023) Neurovascular Development in Pten and Tsc2 Mouse Mutants. *eNeuro*, 10(2).