

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

Phospho-Tuberin/TSC2 (Thr1462) (5B12) Rabbit mAb

RRID:AB_490956

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 3617, RRID:AB_490956

Antibody Information

URL: http://antibodyregistry.org/AB_490956

Proper Citation: Cell Signaling Technology Cat# 3617, RRID:AB_490956

Target Antigen: Phospho-Tuberin/TSC2 (Thr1462) (5B12) Rabbit mAb

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP

Antibody Name: Phospho-Tuberin/TSC2 (Thr1462) (5B12) Rabbit mAb

Description: This monoclonal targets Phospho-Tuberin/TSC2 (Thr1462) (5B12) Rabbit mAb

Target Organism: rat, h, m, mouse, r, human

Antibody ID: AB_490956

Vendor: Cell Signaling Technology

Catalog Number: 3617

Record Creation Time: 20231110T080829+0000

Record Last Update: 20260829T110019+0000

Ratings and Alerts

No rating or validation information has been found for Phospho-Tuberin/TSC2 (Thr1462) (5B12) Rabbit mAb.

No alerts have been found for Phospho-Tuberin/TSC2 (Thr1462) (5B12) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Ngalula S, et al. (2025) TNF-??-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.

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.

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.

Shin J, et al. (2025) Growth factor-independent mTORC1 signaling promotes primary cilia length via suppression of autophagy. *iScience*, 28(12), 114204.

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

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.

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

Senoo H, et al. (2021) KARATE: PKA-induced KRAS4B-RHOA-mTORC2 supercomplex phosphorylates AKT in insulin signaling and glucose homeostasis. *Molecular cell*, 81(22), 4622.

Jia R, et al. (2019) Lysosome Positioning Influences mTORC2 and AKT Signaling. *Molecular cell*, 75(1), 26.

Shi H, et al. (2019) Amino Acids License Kinase mTORC1 Activity and Treg Cell Function via Small G Proteins Rag and Rheb. *Immunity*, 51(6), 1012.

Ng PK, et al. (2018) Systematic Functional Annotation of Somatic Mutations in Cancer. *Cancer cell*, 33(3), 450.

de Theije CC, et al. (2018) Glucocorticoid Receptor Signaling Impairs Protein Turnover Regulation in Hypoxia-Induced Muscle Atrophy in Male Mice. *Endocrinology*, 159(1), 519.