

# Resource Summary Report

Generated by NIF on Sep 4, 2026

## mTOR (7C10) Rabbit mAb

RRID:AB\_2105622

Type: Antibody

### Proper Citation

(Cell Signaling Technology Cat# 2983, RRID:AB\_2105622)

### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_2105622](http://antibodyregistry.org/AB_2105622)

**Proper Citation:** (Cell Signaling Technology Cat# 2983, RRID:AB\_2105622)

**Target Antigen:** mTOR

**Host Organism:** rabbit

**Clonality:** monoclonal

**Comments:** Applications: W, IHC-P, IF-IC, F. Consolidation on 9/2016: AB\_10693786, AB\_10830890.

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

**Antibody Name:** mTOR (7C10) Rabbit mAb

**Description:** This monoclonal targets mTOR

**Target Organism:** rat, mouse, human

**Clone ID:** Clone 7C10

**Antibody ID:** AB\_2105622

**Vendor:** Cell Signaling Technology

**Catalog Number:** 2983

**Alternative Catalog Numbers:** 2983S, 2983P

**Record Creation Time:** 20260513T213717+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:TRUE, NonFunctional in human:FALSE, Functional in animal:FALSE, 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 mTOR (7C10) Rabbit mAb.

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## Data and Source Information

**Source:** [Antibody Registry](#)

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## Usage and Citation Metrics

We found 336 mentions in open access literature.

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

Yu L, et al. (2026) Activin A enhances neurofunctional recovery following traumatic spinal cord injury by inhibiting autophagy. Neural regeneration research, 21(6), 2485.

Fan J, et al. (2026) PDX1 phosphorylation at S61 by mTORC1 links nutrient signaling to ? cell function and metabolic disease. Cell reports, 45(1), 116811.

Lane AR, et al. (2026) Distinct signaling mechanisms and proteome phenotypes are elicited by compartment-specific genetic defects of copper homeostasis. bioRxiv : the preprint server for biology.

Sarkar A, et al. (2026) Targeting PDK4 attenuates neointimal hyperplasia and regulates VSMC phenotypic switching, apoptosis, and autophagy. Biochemical pharmacology, 247, 117805.

Zhou S, et al. (2026) NPC2 suppresses osteolytic metastasis in lung adenocarcinoma via the AKT/mTOR pathway and tumor-osteoclast crosstalk. iScience, 29(3), 115017.

Woo SM, et al. (2026) Inhibiting Fatty Acid Oxidation Reverses Autophagy-Mediated Acquired Chemotherapy Resistance in Pancreatic Ductal Adenocarcinoma. Cancer research, 86(13), 3194.

Shah S, et al. (2026) Metabolic reprogramming during human neuron differentiation indicates glutaminase as a key determinant in Fragile X syndrome. Cell reports, 45(1), 116857.

Chen YL, et al. (2026) Endometrial stromal cell-derived TMAO sustains decidualization to prevent recurrent spontaneous abortion. *Cell metabolism*.

Luo S, et al. (2026) Neuronal PPP2R5C in plasma is a potential biomarker for early diagnosis of Alzheimer's disease. *Cell reports. Medicine*, 7(3), 102631.

Zhang S, et al. (2026) A peritumoral microenvironment engaged by Reg-EXTL3 axis fosters nerve-cancer interactions in pancreatic ductal adenocarcinoma. *Neuron*.

Mitchell-Flack M, et al. (2026) The ionotropic AMPA receptor contributes to autoimmunity via altered regulatory T cell differentiation. *iScience*, 29(1), 114267.

Oh S, et al. (2026) A role for CASM in the repair of damaged Golgi architecture. *Autophagy*, 1.

Nakano H, et al. (2026) Maternal hyperglycemia disrupts cardiomyocyte maturation via aberrant nucleotide metabolism and suppression of AMPK signaling. *Cell reports*, 45(5), 117321.

Guo S, et al. (2026) Rapamycin Reduces Amyloid- $\beta$  Plaques and Improves Behavioral Performance in a Sex-Dependent Manner in Mouse Models of Amyloidosis. *CNS neuroscience & therapeutics*, 32(3), e70807.

Wang J, et al. (2026) Maltol induces diabetic fragility fractures by disrupting the balance of bone remodeling. *Cell metabolism*, 38(6), 1187.

O'Loughlin TA, et al. (2026) mTORC1 activity suppresses ferroptosis through a SCARB1-dependent HDL-tocopherol uptake pathway. *Molecular cell*, 86(8), 1546.

Gao J, et al. (2026) Maternal hyperhomocysteinemia compromises female offspring fertility through overactivation of primordial follicles. *iScience*, 29(7), 116393.

Jing J, et al. (2026) Recombinant tissue plasminogen activator protects neurons after intracerebral hemorrhage through activating the PI3K/AKT/mTOR pathway. *Neural regeneration research*, 21(4), 1574.

Xiong H, et al. (2026) MicroRNA-200s attenuate demyelination caused by *Angiostrongylus cantonensis* in a mouse model by targeting phosphatase and tensin homolog. *Neural regeneration research*, 21(6), 2599.

McAlister KW, et al. (2026) 5-Hydroxytryptamine 2B receptor antagonism restores ATP and reduces tubulointerstitial fibrosis in the renal cortices of aged mice. *The Journal of pharmacology and experimental therapeutics*, 393(5), 104321.