

Resource Summary Report

Generated by [ASWG](#) on Aug 16, 2026

AMPK alpha (D5A2) Rabbit mAb

RRID:AB_10622186

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 5831, RRID:AB_10622186

Antibody Information

URL: http://antibodyregistry.org/AB_10622186

Proper Citation: Cell Signaling Technology Cat# 5831, RRID:AB_10622186

Target Antigen: AMPK alpha

Host Organism: rabbit

Clonality: recombinant monoclonal

Comments: Applications: W, IP

Antibody Name: AMPK alpha (D5A2) Rabbit mAb

Description: This recombinant monoclonal targets AMPK alpha

Target Organism: monkey, rat, mouse, bovine, human

Clone ID: D5A2

Antibody ID: AB_10622186

Vendor: Cell Signaling Technology

Catalog Number: 5831

Alternative Catalog Numbers: 5831T, 5831S

Record Creation Time: 20250819T204910+0000

Record Last Update: 20250819T205544+0000

Ratings and Alerts

No rating or validation information has been found for AMPK alpha (D5A2) Rabbit mAb.

No alerts have been found for AMPK alpha (D5A2) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 100 mentions in open access literature.

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

Chen X, et al. (2026) Glucose hypometabolism and hyperphosphorylated Tau synergistically drive neuronal necroptosis. *Neuron*.

Long F, et al. (2026) MEDAG functions as an A-kinase-anchoring protein in adipocytes. *Molecular cell*, 86(5), 937.

Sharma AK, et al. (2026) DGAT-driven futile lipid cycling has a pronounced, yet concealed, thermogenic function. *Cell metabolism*.

Alway SE, et al. (2026) Restoration of neuromuscular function by mitochondrial transplantation in injured mouse skeletal muscle. *The Journal of physiology*.

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

Filfilan WM, et al. (2026) Supra-additive neuroprotective effects of berberine-metformin combination in diabetic encephalopathy: Chou-Talalay synergy quantification, AMPK-Nrf2 axis modulation, and pharmacokinetic verification. *Metabolic brain disease*, 41(1).

Ekvik AE, et al. (2026) Genetically encoded manipulation of ATP/ADP ratio in human cells uncovers proteomic and physiological signatures of energy stress. *Cell chemical biology*, 33(5), 683.

Lo CH, et al. (2026) Mechanistic Language Modeling and Oxygenated 3D Screening Reveal Berberine and Enzalutamide Synergy in Resistant Prostate Cancer. *bioRxiv : the preprint server for biology*.

Ren D, et al. (2026) Gasdermin C reprograms metabolism through the CAMKK2-AMPK axis to promote lung adenocarcinoma progression and radioresistance. *Cell reports*, 45(6), 117427.

Hawsawi O, et al. (2025) Mitochondrial uncouplers inhibit oncogenic E2F1 activity and prostate cancer growth. *Cell reports. Medicine*, 6(1), 101890.

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

Qian Y, et al. (2025) Metformin hijacks AMPK-ERK1/2 signaling to trigger a pathogenic "selection trap" and thymic atrophy. *Cell reports*, 45(1), 116762.

Dhar K, et al. (2025) Programmed cell revival from imminent cell death enhances tissue repair and regeneration. *The EMBO journal*.

Huang J, et al. (2025) High matrix stiffness triggers testosterone decline in aging males by disrupting stem Leydig cell pool homeostasis. *Cell reports*, 44(9), 116207.

Ma S, et al. (2025) Disrupting mitochondrial dynamics attenuates ferroptosis and chemotoxicity via upregulating NRF2-mediated FSP1 expression. *Cell reports*, 44(9), 116234.

Patil NY, et al. (2025) Cinnabarinic acid protects against metabolic dysfunction-associated steatohepatitis by activating aryl hydrocarbon receptor-dependent AMPK signaling. *American journal of physiology. Gastrointestinal and liver physiology*, 328(4), G433.

Ji H, et al. (2025) ENPP1 governs the metabolic regulation of effector T cells in autoimmunity by detecting cytosolic mitochondrial DNA. *Cell reports*, 44(6), 115851.

Mabou Tagne A, et al. (2025) Metabolic reprogramming in the spinal cord drives the transition to pain chronicity. *Cell reports*, 44(9), 116261.

Lin C, et al. (2025) Cholesterol metabolism regulated by CAMKK2-CREB signaling promotes castration-resistant prostate cancer. *Cell reports*, 44(6), 115792.

Ogawa A, et al. (2025) Adenosine kinase and ADAL coordinate detoxification of modified adenosines to safeguard metabolism. *Cell*.