

Resource Summary Report

Generated by [RRID](#) on Aug 2, 2026

MPC2 (D4I7G) Rabbit mAb

RRID:AB_2799295

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 46141, RRID:AB_2799295

Antibody Information

URL: http://antibodyregistry.org/AB_2799295

Proper Citation: Cell Signaling Technology Cat# 46141, RRID:AB_2799295

Target Antigen: MPC2

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IP

Antibody Name: MPC2 (D4I7G) Rabbit mAb

Description: This monoclonal targets MPC2

Target Organism: h, m, r, mk

Clone ID: Clone D4I7G

Antibody ID: AB_2799295

Vendor: Cell Signaling Technology

Catalog Number: 46141

Record Creation Time: 20250820T013102+0000

Record Last Update: 20250820T110828+0000

Ratings and Alerts

No rating or validation information has been found for MPC2 (D4I7G) Rabbit mAb.

No alerts have been found for MPC2 (D4I7G) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Hsu CC, et al. (2025) ALDH4A1 functions as an active component of the MPC complex maintaining mitochondrial pyruvate import for TCA cycle entry and tumour suppression. *Nature cell biology*, 27(5), 847.

Nuyttens L, et al. (2025) Unraveling mitochondrial pyruvate dysfunction to mitigate hyperlactatemia and lethality in sepsis. *Cell reports*, 44(8), 116032.

Farook MR, et al. (2024) Loss of mitochondrial pyruvate carrier 1 supports proline-dependent proliferation and collagen biosynthesis in ovarian cancer. *Molecular metabolism*, 81, 101900.

Wang H, et al. (2024) Nucleo-cytosolic acetyl-CoA drives tumor immune evasion by regulating PD-L1 in melanoma. *Cell reports*, 43(12), 115015.

Tamura Y, et al. (2024) Monocarboxylate transporter 4 deficiency enhances high-intensity interval training-induced metabolic adaptations in skeletal muscle. *The Journal of physiology*, 602(7), 1313.

Nishi K, et al. (2023) Branched-chain keto acids inhibit mitochondrial pyruvate carrier and suppress gluconeogenesis in hepatocytes. *Cell reports*, 42(6), 112641.

Yiew NKH, et al. (2023) Effects of hepatic mitochondrial pyruvate carrier deficiency on de novo lipogenesis and gluconeogenesis in mice. *iScience*, 26(11), 108196.

Wei P, et al. (2022) Mitochondrial pyruvate supports lymphoma proliferation by fueling a glutamate pyruvate transaminase 2-dependent glutaminolysis pathway. *Science advances*, 8(39), eabq0117.

Cluntun AA, et al. (2021) The pyruvate-lactate axis modulates cardiac hypertrophy and heart failure. *Cell metabolism*, 33(3), 629.

Rossiter NJ, et al. (2021) CRISPR screens in physiologic medium reveal conditionally essential genes in human cells. *Cell metabolism*, 33(6), 1248.

Ordureau A, et al. (2021) Temporal proteomics during neurogenesis reveals large-scale proteome and organelle remodeling via selective autophagy. *Molecular cell*, 81(24), 5082.

Bensard CL, et al. (2020) Regulation of Tumor Initiation by the Mitochondrial Pyruvate Carrier. *Cell metabolism*, 31(2), 284.

Rossi A, et al. (2020) Defective Mitochondrial Pyruvate Flux Affects Cell Bioenergetics in Alzheimer's Disease-Related Models. *Cell reports*, 30(7), 2332.

Sharma A, et al. (2019) Impaired skeletal muscle mitochondrial pyruvate uptake rewires glucose metabolism to drive whole-body leanness. *eLife*, 8.

Park S, et al. (2019) Inhibition of ERR α Prevents Mitochondrial Pyruvate Uptake Exposing NADPH-Generating Pathways as Targetable Vulnerabilities in Breast Cancer. *Cell reports*, 27(12), 3587.

Tompkins SC, et al. (2019) Disrupting Mitochondrial Pyruvate Uptake Directs Glutamine into the TCA Cycle away from Glutathione Synthesis and Impairs Hepatocellular Tumorigenesis. *Cell reports*, 28(10), 2608.