

# Resource Summary Report

Generated by [NIF](#) on Aug 31, 2026

## MCT4 (D-1)

RRID:AB\_10992036

Type: Antibody

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### Proper Citation

Santa Cruz Biotechnology Cat# sc-376140, RRID:AB\_10992036

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### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_10992036](http://antibodyregistry.org/AB_10992036)

**Proper Citation:** Santa Cruz Biotechnology Cat# sc-376140, RRID:AB\_10992036

**Target Antigen:** MCT4 (D-1)

**Clonality:** monoclonal

**Comments:** validation status unknown check with seller; recommendations: WB, IP, IF, ELISA

**Antibody Name:** MCT4 (D-1)

**Description:** This monoclonal targets MCT4 (D-1)

**Target Organism:** human

**Antibody ID:** AB\_10992036

**Vendor:** Santa Cruz Biotechnology

**Catalog Number:** sc-376140

**Record Creation Time:** 20250819T234149+0000

**Record Last Update:** 20250820T060818+0000

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### Ratings and Alerts

No rating or validation information has been found for MCT4 (D-1).

No alerts have been found for MCT4 (D-1).

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### Data and Source Information

## Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Estermann MA, et al. (2026) Glycogen and lactate metabolism in mouse fetal Sertoli cells sustain the germ line. *Cell reports*, 45(3), 117069.

Nguyen NTB, et al. (2025) Lactate controls cancer stemness and plasticity through epigenetic regulation. *Cell metabolism*, 37(4), 903.

Zhao H, et al. (2024) Near-infrared II fluorescence-guided glioblastoma surgery targeting monocarboxylate transporter 4 combined with photothermal therapy. *EBioMedicine*, 106, 105243.

Boufaied N, et al. (2024) Obesogenic High-Fat Diet and MYC Cooperate to Promote Lactate Accumulation and Tumor Microenvironment Remodeling in Prostate Cancer. *Cancer research*, 84(11), 1834.

Zhang Y, et al. (2024) Macrophage MCT4 inhibition activates reparative genes and protects from atherosclerosis by histone H3 lysine 18 lactylation. *Cell reports*, 43(5), 114180.

Guo M, et al. (2023) Molecular, metabolic, and functional CD4 T??cell paralysis in the lymph node impedes tumor control. *Cell reports*, 42(9), 113047.

Qian Y, et al. (2023) MCT4-dependent lactate secretion suppresses antitumor immunity in LKB1-deficient lung adenocarcinoma. *Cancer cell*, 41(7), 1363.

Shen J, et al. (2022) Histone chaperone FACT complex coordinates with HIF to mediate an expeditious transcription program to adapt to poorly oxygenated cancers. *Cell reports*, 38(5), 110304.

Macchi C, et al. (2022) Monocarboxylate transporter 1 deficiency impacts CD8+ T lymphocytes proliferation and recruitment to adipose tissue during obesity. *iScience*, 25(6), 104435.

Wang K, et al. (2021) Di-methylation of CD147-K234 Promotes the Progression of NSCLC by Enhancing Lactate Export. *Cell metabolism*, 33(1), 160.

Ren YZ, et al. (2020) Resolvin D1 ameliorates cognitive impairment following traumatic brain injury via protecting astrocytic mitochondria. *Journal of neurochemistry*, 154(5), 530.

Benjamin D, et al. (2018) Dual Inhibition of the Lactate Transporters MCT1 and MCT4 Is Synthetic Lethal with Metformin due to NAD<sup>+</sup> Depletion in Cancer Cells. *Cell reports*, 25(11), 3047.

Updegraff BL, et al. (2018) Transmembrane Protease TMPRSS11B Promotes Lung Cancer Growth by Enhancing Lactate Export and Glycolytic Metabolism. *Cell reports*,

25(8), 2223.