

# Resource Summary Report

Generated by [dkNET](#) on Sep 3, 2026

## MCT1 antibody

RRID:AB\_2878645

Type: Antibody

---

### Proper Citation

Proteintech Cat# 20139-1-AP, RRID:AB\_2878645

---

### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_2878645](http://antibodyregistry.org/AB_2878645)

**Proper Citation:** Proteintech Cat# 20139-1-AP, RRID:AB\_2878645

**Target Antigen:** MCT1

**Host Organism:** rabbit

**Clonality:** polyclonal

**Comments:** Originating manufacturer of this product.  
Applications: WB, IP, IHC, IF, ELISA

**Antibody Name:** MCT1 antibody

**Description:** This polyclonal targets MCT1

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

**Antibody ID:** AB\_2878645

**Vendor:** Proteintech

**Catalog Number:** 20139-1-AP

**Record Creation Time:** 20231110T031824+0000

**Record Last Update:** 20260829T114008+0000

---

### Ratings and Alerts

No rating or validation information has been found for MCT1 antibody.

No alerts have been found for MCT1 antibody.

## Data and Source Information

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

## Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Uruk G, et al. (2026) Peri-Microvascular Glycogen and Lactate Regulate Capillary Constrictions and Ischemia Outcome in Mice. *Journal of neurochemistry*, 170(4), e70430.

Zhao J, et al. (2026) Reprogramming bacterial energetics reverses lactate-mediated immunosuppression for synergistic cancer immunotherapy. *Trends in biotechnology*.

Zhao H, et al. (2026) tLyP-1 peptide-modified MnO<sub>2</sub> co-delivering si-SLC16A1 and temozolomide synergistically suppresses glioblastoma via hypoxia modulation and metabolic stress. *Journal of nanobiotechnology*, 24(1).

Xu Y, et al. (2026) Comprehensive single-cell metabolic profiling identifies targets to sensitize triple-negative breast cancer to chemo-immunotherapy. *Cell reports. Medicine*, 7(3), 102659.

Cui S, et al. (2026) Mume Flos ameliorates MASLD-associated cognitive impairment by attenuating IL-17/NF- $\kappa$ B-mediated metabolic neuroinflammation. *Metabolic brain disease*, 41(1).

Kita-Shirakura A, et al. (2026) Chronic glucocorticoid exposure disrupts lactate homeostasis and hippocampal neurogenesis by reducing cerebrovascular monocarboxylate transporter 1, leading to behavioral abnormalities in mice. *Journal of pharmacological sciences*, 162(1), 80.

Yu H, et al. (2025) Lactate production by tumor-resident *Staphylococcus* promotes metastatic colonization in lung adenocarcinoma. *Cell host & microbe*, 33(7), 1089.

Yasukawa K, et al. (2025) ACVR2A attenuation impacts lactate production and hyperglycolytic conditions attracting regulatory T cells in hepatocellular carcinoma. *Cell reports. Medicine*, 6(4), 102038.

Liu M, et al. (2025) CDK1-mediated phosphorylation of LDHA fuels mitosis through LDHB-dependent lactate oxidation. *EMBO reports*.

Cao Y, et al. (2025) Structural changes in cerebral microvasculature induced by ferroptosis contribute to blood-brain barrier disruption in Alzheimer's disease: an autopsy study. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(4), e70103.

Li J, et al. (2025) A CD147-targeted small-molecule inhibitor potentiates gemcitabine efficacy by triggering ferroptosis in pancreatic ductal adenocarcinoma. *Cell reports. Medicine*, 6(8), 102292.

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.

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.

Sun Y, et al. (2024) Lactate-driven type I collagen deposition facilitates cancer stem cell-like phenotype of head and neck squamous cell carcinoma. *iScience*, 27(4), 109340.

He Q, et al. (2024) Acetate enables metabolic fitness and cognitive performance during sleep disruption. *Cell metabolism*, 36(9), 1998.

Ma J, et al. (2024) CHCHD4-TRIAP1 regulation of innate immune signaling mediates skeletal muscle adaptation to exercise. *Cell reports*, 43(1), 113626.

Zhou P, et al. (2023) High dietary fructose promotes hepatocellular carcinoma progression by enhancing O-GlcNAcylation via microbiota-derived acetate. *Cell metabolism*, 35(11), 1961.

Chen F, et al. (2023) ATP6V0D1 promotes alkaliptosis by blocking STAT3-mediated lysosomal pH homeostasis. *Cell reports*, 42(1), 111911.

Wang G, et al. (2022) Spatial dynamic metabolomics identifies metabolic cell fate trajectories in human kidney differentiation. *Cell stem cell*, 29(11), 1580.

Cao Y, et al. (2022) Arteriolosclerosis differs from venular collagenosis in relation to cerebrovascular parenchymal damages: an autopsy-based study. *Stroke and vascular neurology*.