

Resource Summary Report

Generated by [RRID](#) on Sep 7, 2026

mCT1

RRID:CVCL_IN71

Type: Cell Line

Proper Citation

RRID:CVCL_IN71

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_IN71

Proper Citation: RRID:CVCL_IN71

Description: Cell line mCT1 is a Conditionally immortalized cell line with a species of origin *Mus musculus* (Mouse)

Sex: Sex unspecified

Defining Citation: [PMID:11121394](#)

Category: Conditionally immortalized cell line

Organism: *Mus musculus* (Mouse)

Name: mCT1

Cross References: Wikidata:Q54904537

ID: CVCL_IN71

Record Creation Time: 20220427T220753+0000

Record Last Update: 20260905T181118+0000

Ratings and Alerts

No rating or validation information has been found for mCT1.

No alerts have been found for mCT1.

Data and Source Information

Usage and Citation Metrics

We found 96 mentions in open access literature.

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

Syed S, et al. (2023) Prognostic value of epigenetic markers for canine mast cell cancer. PloS one, 18(3), e0283616.

Silva A, et al. (2023) Prognostic Value of Monocarboxylate Transporter 1 Overexpression in Cancer: A Systematic Review. International journal of molecular sciences, 24(6).

Grasa L, et al. (2023) Antitumor effects of lactate transport inhibition on esophageal adenocarcinoma cells. Journal of physiology and biochemistry, 79(1), 147.

Ge W, et al. (2023) The SIX1/LDHA Axis Promotes Lactate Accumulation and Leads to NK Cell Dysfunction in Pancreatic Cancer. Journal of immunology research, 2023, 6891636.

Sheng G, et al. (2023) Functional heterogeneity of MCT1 and MCT4 in metabolic reprogramming affects osteosarcoma growth and metastasis. Journal of orthopaedic surgery and research, 18(1), 131.

Xu L, et al. (2023) Brain metabolism in Alzheimer's disease: biological mechanisms of exercise. Translational neurodegeneration, 12(1), 33.

Ursprung S, et al. (2022) Hyperpolarized ¹³C-Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinoma-A Proof of Principle Study. Cancers, 14(2).

Sushentsev N, et al. (2022) Hyperpolarised ¹³C-MRI identifies the emergence of a glycolytic cell population within intermediate-risk human prostate cancer. Nature communications, 13(1), 466.

Cunha A, et al. (2022) Glycolytic Inhibitors Potentiated the Activity of Paclitaxel and Their Nanoencapsulation Increased Their Delivery in a Lung Cancer Model. Pharmaceuticals, 14(10).

Hasheminasab SS, et al. (2022) ATP Purinergic Receptor P2X1-Dependent Suicidal NETosis Induced by Cryptosporidium parvum under Physioxia Conditions. Biology, 11(3).

Tidwell TR, et al. (2022) Metabolic flux analysis of 3D spheroids reveals significant differences in glucose metabolism from matched 2D cultures of colorectal cancer and pancreatic ductal adenocarcinoma cell lines. Cancer & metabolism, 10(1), 9.

Takeda R, et al. (2022) Effect of endurance training and PGC-1?? overexpression on calculated lactate production volume during exercise based on blood lactate concentration. Scientific reports, 12(1), 1635.

Milliken AS, et al. (2022) Inhibiting Succinate Release Worsens Cardiac Reperfusion Injury by Enhancing Mitochondrial Reactive Oxygen Species Generation. *Journal of the American Heart Association*, 11(13), e026135.

Zhou J, et al. (2022) Monocarboxylate transporter upregulation in induced regulatory T cells promotes resistance to anti-PD-1 therapy in hepatocellular carcinoma patients. *Frontiers in oncology*, 12, 960066.

Bouchez CL, et al. (2022) NADH-independent enzymatic assay to quantify extracellular and intracellular L-lactate levels. *STAR protocols*, 3(2), 101403.

Kerk SA, et al. (2022) Metabolic requirement for GOT2 in pancreatic cancer depends on environmental context. *eLife*, 11.

Gleason CB, et al. (2022) Rumen fermentation and epithelial gene expression responses to diet ingredients designed to differ in ruminally degradable protein and fiber supplies. *Scientific reports*, 12(1), 2933.

Hiltunen N, et al. (2022) Monocarboxylate Transporters 1 and 4 and Prognosis in Small Bowel Neuroendocrine Tumors. *Cancers*, 14(10).

Macdonald EB, et al. (2021) Hyperpolarized ¹³C Magnetic Resonance Spectroscopic Imaging of Pyruvate Metabolism in Murine Breast Cancer Models of Different Metastatic Potential. *Metabolites*, 11(5).

Leu M, et al. (2021) Monocarboxylate transporter-1 (MCT1) protein expression in head and neck cancer affects clinical outcome. *Scientific reports*, 11(1), 4578.