

Resource Summary Report

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MT-2

RRID:CVCL_2631

Type: Cell Line

Proper Citation

BEI_Resources Cat# ARP-237, RRID:CVCL_2631

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_2631

Proper Citation: BEI_Resources Cat# ARP-237, RRID:CVCL_2631

Description: Cell line MT-2 is a Transformed cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: [PMID:1765142](#), [PMID:2985879](#), [PMID:3001699](#), [PMID:3003193](#), [PMID:3159941](#), [PMID:3874327](#), [PMID:6198871](#), [PMID:6275274](#), [PMID:6281119](#), [PMID:7662981](#), [PMID:7832798](#), [PMID:8957066](#), [PMID:9510473](#), [PMID:12920029](#), [PMID:15638862](#), [PMID:16850164](#), [PMID:19220422](#), [PMID:22608188](#), [PMID:25544500](#), [PMID:26940204](#), [PMID:28357668](#), [PMID:29892436](#), [PMID:32187573](#)

Comments: Virology: Susceptible to infection by hepatitis C virus (HCV) (PubMed=7832798)., Virology: HTLV-1 producing cell line. Contains 11 integrated HTLV-1 proviruses: one complete proviral genome, six copies of a provirus with an internal deletion of 5.3 kb, one copy of a provirus with an internal deletion of 3.9 kb, one copy of a provirus with a 6.2 kb deletion from 5'LTR to position 6257 and two copies of a provirus composed of LTR only., Characteristics: Was established by co-cultivation of cells from a 45 year old female T-cell leukemia patient with cord leukocytes from a male infant (CelloPub=CLPUB00542)., Population: Japanese.

Category: Transformed cell line

Organism: Homo sapiens (Human)

Name: MT-2

Synonyms: MT2, MT-2J, MT-2Org

Cross References: BTO:BTO_0005492, CLO:CLO_0007888, EFO:EFO_0022393, CLDB:cl3596, CLDB:cl3597, BEI_Resources:ARP-237, BioSample:SAMN03472437, ChEMBL-Cells:ChEMBL3307558, ChEMBL-Targets:ChEMBL614184, Cosmic:919158, ECACC:08081401, ECACC:93121518, IARC_TP53:27003, JCRB:JCRB1210, JCRB:NIHS0527, PubChem_Cell_line:CVCL_2631, Wikidata:Q54906935

ID: CVCL_2631

Vendor: BEI_Resources

Catalog Number: ARP-237

Record Creation Time: 20250130T072146+0000

Record Last Update: 20260905T184058+0000

Ratings and Alerts

No rating or validation information has been found for MT-2.

Warning: Discontinued: JCRB; NIHS0527

Virology: Susceptible to infection by hepatitis C virus (HCV) (PubMed=7832798).,

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Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 378 mentions in open access literature.

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

Cooney JP, et al. (2025) Combination antiretroviral therapy and MCL-1 inhibition mitigate HTLV-1 infection in vivo. Cell, 188(18), 4896.

Pfeffer K, et al. (2024) A method for screening functional anti-Treg antibodies using a Treg-like cell line. *Journal of leukocyte biology*.

Pfeffer K, et al. (2023) Generation and characterization of a monoclonal antibody that binds to Galectin-1. *Protein expression and purification*, 210, 106308.

Heinitz S, et al. (2023) Adsorption of radon on silver exchanged zeolites at ambient temperatures. *Scientific reports*, 13(1), 6811.

Alaiya MA, et al. (2023) Utilisation of *Mangifera indica* plant extracts and parts in antimicrobial formulations and as a pharmaceutical excipient: a review. *Future journal of pharmaceutical sciences*, 9(1), 29.

Bonifacci P, et al. (2023) Eye-Movements in a Text Reading Task: A Comparison of Preterm Children, Children with Dyslexia and Typical Readers. *Brain sciences*, 13(3).

Yuldasheva GA, et al. (2023) Molecular Modeling of the Anti-HIV Activity Mechanism of Iodine-Containing Drugs Armenicum and FS-1. *ACS omega*, 8(9), 8617.

Kurahashi Y, et al. (2023) Dual targeting of aberrant DNA and histone methylation synergistically suppresses tumor cell growth in ATL. *Blood advances*, 7(8), 1545.

Ernzen K, et al. (2023) The PRMT5 inhibitor EPZ015666 is effective against HTLV-1-transformed T-cell lines in vitro and in vivo. *Frontiers in microbiology*, 14, 1101544.

Wang C, et al. (2023) Antiviral Properties of HIV-1 Capsid Inhibitor GSK878. *Antimicrobial agents and chemotherapy*, 67(5), e0169422.

Xu L, et al. (2023) A dePEGylated Lipopeptide-Based Pan-Coronavirus Fusion Inhibitor Exhibits Potent and Broad-Spectrum Anti-HIV-1 Activity without Eliciting Anti-PEG Antibodies. *International journal of molecular sciences*, 24(11).

Hirano M, et al. (2023) The RNA helicase DDX39B activates FOXP3 RNA splicing to control T regulatory cell fate. *eLife*, 12.

He L, et al. (2023) Broad-spectrum anti-HIV activity and high drug resistance barrier of lipopeptide HIV fusion inhibitor LP-19. *Frontiers in immunology*, 14, 1199938.

Polakowski N, et al. (2023) HBZ upregulates myoferlin expression to facilitate HTLV-1 infection. *PLoS pathogens*, 19(2), e1011202.

Boonnate P, et al. (2023) Shikonin Induces ROS-Dependent Apoptosis Via Mitochondria Depolarization and ER Stress in Adult T Cell Leukemia/Lymphoma. *Antioxidants (Basel, Switzerland)*, 12(4).

Kendle W, et al. (2023) Upregulation of Neuropilin-1 Inhibits HTLV-1 Infection. *Pathogens (Basel, Switzerland)*, 12(6).

Zuo X, et al. (2023) HTLV-1 persistent infection and ATLL oncogenesis. *Journal of medical virology*, 95(1), e28424.

Yoshida-Sakai N, et al. (2022) Adult T-cell leukemia-lymphoma acquires resistance to DNA demethylating agents through dysregulation of enzymes involved in pyrimidine

metabolism. International journal of cancer, 150(7), 1184.

Wang X, et al. (2022) A Toxin-Conjugated Recombinant Protein Targeting gp120 and gp41 for Inactivating HIV-1 Virions and Killing Latency-Reversing Agent-Reactivated Latent Cells. mBio, 13(1), e0338421.

Jeffrey JL, et al. (2022) Impact of Integrase Sequences from HIV-1 Subtypes A6/A1 on the In Vitro Potency of Cabotegravir or Rilpivirine. Antimicrobial agents and chemotherapy, 66(3), e0170221.