

Resource Summary Report

Generated by [NIF](#) on Aug 8, 2026

ACH-2

RRID:CVCL_0138

Type: Cell Line

Proper Citation

RRID:CVCL_0138

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0138

Proper Citation: RRID:CVCL_0138

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

Sex: Female

Disease: Childhood T acute lymphoblastic leukemia

Defining Citation: [PMID:2463307](#), [PMID:26912621](#), [PMID:28086908](#)

Comments: Virology: Latently infected with HIV-1 isolate LAI. The main site of integration of the HIV-1 genome is located in the NT5C3A gene. Additional integration sites are found in the SLC25A25-AS, EPT1 and NPLOC4 genes (PubMed=26912621; PubMed=28086908)., Population: Caucasian.

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: ACH-2

Synonyms: ACH2

Cross References: BTO:BTO_0002551, MCCL:MCC:0000031, BEI_Resources:ARP-349, cancercellines:CVCL_0138, ChEMBL-Cells:ChEMBL3307897, ChEMBL-Targets:ChEMBL614263, PubChem_Cell_line:CVCL_0138, Wikidata:Q54608362

ID: CVCL_0138

Hierarchy: cvcl_6244

Record Creation Time: 20220427T215127+0000

Record Last Update: 20260802T005729+0000

Ratings and Alerts

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

No alerts have been found for ACH-2.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 208 mentions in open access literature.

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

Man S, et al. (2025) Transcriptomic HIV-1 reservoir profiling reveals a role for mitochondrial functionality in HIV-1 latency. PLoS pathogens, 21(1), e1012822.

Man S, et al. (2025) Flow Cytometric Quantification of HIV-1-Infected Cells Expressing Either Abortive or Elongated HIV-1 Transcripts Using Flow-FISH. Bio-protocol, 15(14), e5392.

LaPorte A, et al. (2024) Single-molecule RNA-FISH analysis reveals stochasticity in reactivation of latent HIV-1 regulated by Nuclear Orphan Receptors NR4A and cMYC. Research square.

Jain J, et al. (2024) Bivalent SMAC mimetic APG-1387 reduces HIV reservoirs and limits viral rebound in humanized mice. iScience, 27(12), 111470.

Dias J, et al. (2024) Retinoic acid enhances HIV-1 reverse transcription and transcription in macrophages via mTOR-modulated mechanisms. Cell reports, 43(7), 114414.

Sánchez-Gaona N, et al. (2024) NKG2C and NKG2A coexpression defines a highly functional antiviral NK population in spontaneous HIV control. JCI insight, 9(20).

Moskovljevic M, et al. (2024) Cognate antigen engagement induces HIV-1 expression in latently infected CD4+ T cells from people on long-term antiretroviral therapy. Immunity, 57(12), 2928.

Dufour C, et al. (2023) Phenotypic characterization of single CD4+ T cells harboring genetically intact and inducible HIV genomes. Nature communications, 14(1), 1115.

Promsote W, et al. (2023) Trispecific antibody targeting HIV-1 and T cells activates and eliminates latently-infected cells in HIV/SHIV infections. Nature communications, 14(1), 3719.

Kobayashi-Ishihara M, et al. (2023) Schlafen 12 restricts HIV-1 latency reversal by a codon-usage dependent post-transcriptional block in CD4+ T cells. *Communications biology*, 6(1), 487.

Liu H, et al. (2023) Strategic self-limiting production of infectious HIV particles by CRISPR in permissive cells. *Molecular therapy. Nucleic acids*, 32, 1010.

Khan M, et al. (2023) Characterization of Rare Spontaneous Human Immunodeficiency Virus Viral Controllers Attending a National United Kingdom Clinical Service Using a Combination of Serology and Molecular Diagnostic Assays. *Open forum infectious diseases*, 10(5), ofad108.

Colas C, et al. (2023) Generation of functional human T cell development in NOD/SCID/IL2r γ null humanized mice without using fetal tissue: Application as a model of HIV infection and persistence. *Stem cell reports*, 18(2), 597.

Lian X, et al. (2023) Progressive transformation of the HIV-1 reservoir cell profile over two decades of antiviral therapy. *Cell host & microbe*, 31(1), 83.

Li R, et al. (2023) Epigenetic Regulation of HIV-1 Sense and Antisense Transcription in Response to Latency-Reversing Agents. *Non-coding RNA*, 9(1).

Boucher J, et al. (2023) Immune Cells Release MicroRNA-155 Enriched Extracellular Vesicles That Promote HIV-1 Infection. *Cells*, 12(3).

Madhuravasal Krishnan J, et al. (2023) The Synthetic Opioid Fentanyl Increases HIV Replication and Chemokine Co-Receptor Expression in Lymphocyte Cell Lines. *Viruses*, 15(4).

Dash PK, et al. (2023) CRISPR editing of CCR5 and HIV-1 facilitates viral elimination in antiretroviral drug-suppressed virus-infected humanized mice. *Proceedings of the National Academy of Sciences of the United States of America*, 120(19), e2217887120.

Schober R, et al. (2023) Multimeric immunotherapeutic complexes activating natural killer cells towards HIV-1 cure. *Journal of translational medicine*, 21(1), 791.

Mutascio S, et al. (2023) CD8+ T cells promote HIV latency by remodeling CD4+ T cell metabolism to enhance their survival, quiescence, and stemness. *Immunity*, 56(5), 1132.