

Resource Summary Report

Generated by [NIF](#) on Sep 20, 2026

HL-60

RRID:CVCL_0002

Type: Cell Line

Proper Citation

RRID:CVCL_0002

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0002

Proper Citation: RRID:CVCL_0002

Description: Cell line HL-60 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Female

Disease: Adult acute myeloid leukemia with maturation

Defining Citation: [PMID:271272](#), [PMID:288488](#), [PMID:1368402](#), [PMID:1574572](#), [PMID:1970118](#), [PMID:2140233](#), [PMID:2545346](#), [PMID:2858093](#), [PMID:2985879](#), [PMID:3159941](#), [PMID:3311197](#), [PMID:3335022](#), [PMID:3422031](#), [PMID:3860286](#), [PMID:3874327](#), [PMID:6091813](#), [PMID:6255959](#), [PMID:6582512](#), [PMID:6945469](#), [PMID:6954533](#), [PMID:6996765](#), [PMID:7630190](#), [PMID:8316623](#), [PMID:8343448](#), [PMID:8558913](#), [PMID:8562479](#), [PMID:9434637](#), [PMID:9510473](#), [PMID:9557624](#), [PMID:9607592](#), [PMID:9737686](#), [PMID:9738977](#), [PMID:10739008](#), [PMID:11226526](#), [PMID:11416159](#), [PMID:12068308](#), [PMID:12661003](#), [PMID:15843827](#), [PMID:16120335](#), [PMID:16408098](#), [PMID:16957166](#), [PMID:17088437](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:22032829](#), [PMID:22068913](#), [PMID:22347499](#), [PMID:22460905](#), [PMID:22944676](#), [PMID:23955599](#), [PMID:24368162](#), [PMID:24670534](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25894527](#), [PMID:25984343](#), [PMID:26589293](#), [PMID:27397505](#), [PMID:28109323](#), [PMID:28196595](#), [PMID:29491412](#), [PMID:30285677](#), [PMID:30629668](#), [PMID:30670178](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31160637](#), [PMID:31733513](#), [PMID:33389257](#), [PMID:35839778](#), [PMID:36982453](#)

Comments: Anecdotal: Established at the 60th attempt to culture human leukemia biopsies in Gallo's lab. All the preceding attempts having failed., Virology: Not susceptible to infection by SARS coronavirus 2 (SARS-CoV-2) (COVID-19) (PubMed=33389257)., Biotechnology: Used a source of mitochondrial DNA for USA forensic testing., Population: Caucasian., Part of: MYC genetic alteration cell panel (ATCC TCP-1035)., Part of: MD Anderson Cell Lines Project., Part of: LL-100 blood cancer cell line panel., Part of: Human

Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 3., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Group: Space-flown cell line (cellonaut).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: HL-60

Synonyms: HL 60, HL.60, HL60, Human Leukemia-60

Cross References: BTO:BTO_0000738, CLO:CLO_0003775, CLO:CLO_0050972, EFO:EFO_0002793, MCCL:MCC:0000195, CLDB:cl1682, CLDB:cl1684, CLDB:cl1685, CLDB:cl1686, CLDB:cl1687, CLDB:cl1688, CLDB:cl1689, CLDB:cl1690, CLDB:cl1691, CLDB:cl1693, Abcam:ab282204, AddexBio:C0003023/4977, ArrayExpress:E-MTAB-38, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ArrayExpress:E-MTAB-7721, ArrayExpress:E-MTAB-7722, ATCC:CCL-240, BCRC:60027, BCRJ:0104, BioGRID_ORCS_Cell_line:42, BioSample:SAMN01821559, BioSample:SAMN01821682, BioSample:SAMN03472768, BioSample:SAMN03473174, BioSample:SAMN10988245, cancercellines:CVCL_0002, CCRID:1101HUM-PUMC000037, CCRID:1102HUM-NIFDC000098, CCRID:3101HUMTCHu23, CCRID:4201HUM-CCTCC000028, CCTCC:GDC0027, CCTCC:GDC0028, Cell_Model_Passport:SIDM00829, ChEMBL-Cells:ChEMBL3307654, ChEMBL-Targets:ChEMBL383, CLS:300209, Cosmic:716179, Cosmic:716190, Cosmic:724817, Cosmic:787433, Cosmic:798224, Cosmic:798665, Cosmic:808506, Cosmic:821043, Cosmic:850380, Cosmic:851996, Cosmic:875866, Cosmic:905938, Cosmic:919116, Cosmic:922161, Cosmic:922683, Cosmic:924049, Cosmic:932769, Cosmic:947366, Cosmic:949099, Cosmic:975252, Cosmic:981578, Cosmic:991557, Cosmic:994170, Cosmic:999724, Cosmic:1012068, Cosmic:1019836, Cosmic:1037661, Cosmic:1070693, Cosmic:1078724, Cosmic:1089519, Cosmic:1092602, Cosmic:1107177, Cosmic:1127250, Cosmic:1130234, Cosmic:1168468, Cosmic:1176580, Cosmic:1181599, Cosmic:1191695, Cosmic:1192826, Cosmic:1226863, Cosmic:1281315, Cosmic:1305337, Cosmic:1308224, Cosmic:1319549, Cosmic:1451845, Cosmic:1465966, Cosmic:1523825, Cosmic:1524830, Cosmic:1582390, Cosmic:1601062, Cosmic:1604861, Cosmic:1998444, Cosmic:2036678, Cosmic:2089652, Cosmic:2131539, Cosmic:2301565, Cosmic:2306208, Cosmic:2651387, Cosmic-CLP:905938, DepMap:ACH-000002, DSMZ:ACC-3, DSMZCellDive:ACC-3, ECACC:98070106, EGA:EGAS00001000610, EGA:EGAS00001000978, ENCODE:ENCBS069ENC, ENCODE:ENCBS070ENC, ENCODE:ENCBS215JQI, ENCODE:ENCBS308XSW, ENCODE:ENCBS373UEY, ENCODE:ENCBS482VCU, ENCODE:ENCBS698WLF, ENCODE:ENCBS869DKF, ENCODE:ENCBS880XNW, FANTOM5_SSTAR:10829-111D1, GDSC:905938, GEO:GSM50194, GEO:GSM50258, GEO:GSM213809, GEO:GSM236782, GEO:GSM236818, GEO:GSM472908, GEO:GSM472942, GEO:GSM482507, GEO:GSM545496, GEO:GSM545497, GEO:GSM743458, GEO:GSM749688, GEO:GSM749775, GEO:GSM750812, GEO:GSM799346, GEO:GSM799409, GEO:GSM838428, GEO:GSM838429, GEO:GSM838430, GEO:GSM838431, GEO:GSM887083, GEO:GSM888153, GEO:GSM945222, GEO:GSM945255, GEO:GSM1153417, GEO:GSM1181331, GEO:GSM1181348, GEO:GSM1374535, GEO:GSM1374536, GEO:GSM1446736, GEO:GSM1669883, GEO:GSM2716740,

GEO:GSM2716741, GEO:GSM2716742, GEO:GSM2716743, GEO:GSM7701378, GEO:GSM7701379, IARC_TP53:21372, IARC_TP53:21731, ICLC:HTL95010, IGRhCellID:HL60, IZSLER:BS TCL 25, JCRB:IFO50022, JCRB:JCRB0085, JCRB:NIHS0086, KCB:KCB 2014051YJ, KCLB:10240, LiGeA:CCLE_789, LINCS_LDP:LCL-1054, Lonza:64, MeSH:D018922, NCBI_Iran:C217, PharmacDB:HL60_546_2019, PRIDE:PRD000345, PRIDE:PXD000589, PRIDE:PXD003539, PRIDE:PXD006421, PRIDE:PXD030304, PRIDE:PXD032942, Progenetix:CVCL_0002, PubChem_Cell_line:CVCL_0002, RCB:RCB0041, RCB:RCB3683, SKY/M-FISH/CGH:5609, TKG:TKG 0345, TOKU-E:1488, Ubigen:YC-C058, Wikidata:Q5630035

ID: CVCL_0002

Record Creation Time: 20220427T220435+0000

Record Last Update: 20260920T003759+0000

Ratings and Alerts

No rating or validation information has been found for HL-60.

Warning: Discontinued: JCRB; NIHS0086

Anecdotal: Established at the 60th attempt to culture human leukemia biopsies in Gallo's lab. All the preceding attempts having failed., Virology: Not susceptible to infection by SARS coronavirus 2 (SARS-CoV-2) (COVID-19) (PubMed=33389257)., Biotechnology: Used a source of mitochondrial DNA for USA forensic testing., Population: Caucasian., Part of: MYC genetic alteration cell panel (ATCC TCP-1035)., Part of: MD Anderson Cell Lines Project., Part of: LL-100 blood cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 3., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Group: Space-flown cell line (cellonaut).

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 4410 mentions in open access literature.

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

Tardaguila M, et al. (2026) Integrating natural and engineered genetic variations to decode regulatory influence on blood traits. Cell reports, 45(2), 116937.

Diep RE, et al. (2026) Natural maternal immunity protects neonates from Escherichia coli sepsis. Nature, 653(8114), 519.

Hofstetter M, et al. (2026) Enhancement of CD117-Targeted Bispecific T-cell Engagement by CD33-Targeted Bispecific T-cell Costimulation in Acute Myeloid Leukemia. Cancer

research communications, 6(4), 946.

Lu L, et al. (2026) Enalaprilat reverses neutrophil polarization imbalance via targeting taurine-STING axis for treatment of diabetic wounds. *Cell reports. Medicine*, 7(4), 102714.

Wu S, et al. (2026) Inhibition of CDK9 enhances AML cell death induced by combined venetoclax and azacitidine. *Molecular oncology*, 20(2), 555.

Ning XY, et al. (2026) Four New Triterpenoids From *Rubus pirifolius* Smith. *Chemistry & biodiversity*, 23(2), e03037.

Fujino T, et al. (2026) Development of CAR T cells Targeting a Surface RNA Binding Protein for the Treatment of Acute Leukemias. *Cancer discovery*.

Mehandzhiyski AY, et al. (2026) Cytotoxic Profiling of 3',4',5'-Trimethoxychalcones Reveals Cell-Line-Dependent Cytotoxic Activity: An In Vitro and In Silico Study. *Chemistry & biodiversity*, 23(5), e71336.

Wu J, et al. (2026) Enhanced formaldehyde clearance ameliorates differentiation-induced genotoxicity in Fanconi anemia mutant cells. *Cell reports*, 45(6), 117449.

Sun C, et al. (2026) Micro-Galvanic Coupling Programs the Therapeutic Zinc Ion Window to Reconfigure Immune Cascades for Pro-Regenerative Bone Healing. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), e76084.

Chen L, et al. (2026) Tyrosine kinase 2 inhibition by GL-V9 treats psoriasiform dermatitis via macrophage-helper T-cell modulation. *British journal of pharmacology*.

Liu X, et al. (2026) High throughput screening identifies sanguinarine chloride as a multifaceted therapeutic agent for PRCC-TFE3 rRCC by targeting lactylation-driven VEGFB-VEGFR2 signaling and PMN-MDSC infiltration. *Journal of advanced research*.

Sahm BDB, et al. (2026) Anticancer Potential of Piericidin A1 and Derivatives Isolated From *Streptomyces* sp. Associated With *Palythoa variabilis* From Brazilian Reefs. *Chemistry & biodiversity*, 23(4), e03815.

Zhou Y, et al. (2026) Distinct Regulation of the ARF and TAp73 Tumor Suppressor Genes by the Transcription Factor E2F1 Enables Discrimination of Cancer Cells from Normal Growing Cells. *Cells*, 15(1).

Jiang L, et al. (2026) Clinical Significance for Risk Stratification of Papillary Thyroid Cancer by TUMORFISHER Circulating Tumor Cell Technique. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(7), 1313.

Takeda S, et al. (2026) A MERTK-Targeting Antibody-Drug Conjugate Selectively Depletes M2 Tumor-Associated Macrophages and MERTK-Expressing Cancer Cells. *Cancer research*, 86(8), 2024.

Sun S, et al. (2026) Ammonia Detoxification Inhibits Liver Metastasis by Reshaping Hepatic Microenvironment. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(33), e21098.

Chen TQ, et al. (2026) RBM15B recognizes H3K79me2 to guide selective m6A-modification of mRNA and enhance oncoprotein translation in MLL-r leukemia. *The EMBO journal*, 45(5), 1672.

Jones L, et al. (2026) A structure-based modeling approach identifies effective drug combinations for RAS-mutant acute myeloid leukemia. *iScience*, 29(8), 116875.

Fujikawa M, et al. (2026) Oxygen-stable streptolysin O variant enables mitochondrial ATP synthesis analysis in minimal cells blood and tissues. *iScience*, 29(8), 116788.