

Resource Summary Report

Generated by [NIF](#) on Sep 22, 2026

THP-1

RRID:CVCL_0006

Type: Cell Line

Proper Citation

RRID:CVCL_0006

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0006

Proper Citation: RRID:CVCL_0006

Description: Cell line THP-1 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Childhood acute monocytic leukemia

Defining Citation: [PMID:1571549](#), [PMID:1915666](#), [PMID:2633408](#), [PMID:2985879](#), [PMID:3159941](#), [PMID:3874327](#), [PMID:6091813](#), [PMID:6949641](#), [PMID:6970727](#), [PMID:8558913](#), [PMID:9290701](#), [PMID:9379676](#), [PMID:9510473](#), [PMID:9738977](#), [PMID:10223614](#), [PMID:10739008](#), [PMID:11066077](#), [PMID:11226526](#), [PMID:11414198](#), [PMID:11416159](#), [PMID:12068308](#), [PMID:14504097](#), [PMID:14671638](#), [PMID:15843827](#), [PMID:16311011](#), [PMID:16337770](#), [PMID:16408098](#), [PMID:16957166](#), [PMID:19220422](#), [PMID:19377474](#), [PMID:20215515](#), [PMID:22460905](#), [PMID:22481983](#), [PMID:22645513](#), [PMID:22674354](#), [PMID:23097634](#), [PMID:23955599](#), [PMID:24368162](#), [PMID:25130606](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25984343](#), [PMID:26421875](#), [PMID:26589293](#), [PMID:27397505](#), [PMID:28109323](#), [PMID:28196595](#), [PMID:28404994](#), [PMID:29169185](#), [PMID:29787063](#), [PMID:29901211](#), [PMID:30285677](#), [PMID:30629668](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31160637](#), [PMID:31978347](#), [PMID:32387766](#), [PMID:33389257](#), [PMID:35373342](#), [PMID:35839778](#), [PMID:36982453](#)

Comments: Caution: NRAS mutation indicated incorrectly as being p.Gly12Ser in PubMed=9379676., Anecdotal: Have been flown in space on Cosmos-2044 to study the inhibition of phorbol ester-induced cell activation in microgravity (PubMed=1915666)., Virology: Not susceptible to infection by SARS coronavirus 2 (SARS-CoV-2) (COVID-19) (PubMed=33389257)., Characteristics: Can differentiate from monocytes into macrophage-like cells upon stimulation with PMA., Biotechnology: Used in the human Cell Line Activation Test (h-CLAT), an in vitro skin sensitization test (PubMed=16311011; PubMed=16337770; PubMed=29901211)., Population: Japanese., Part of: Tumor

Immunology Bank (TIB) collection from Salk (transferred to ATCC in 1981)., Part of: RAS genetic alteration cell panel (ATCC TCP-1031)., 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: 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: THP-1

Synonyms: THP1, THP 1, THPI, THP-1(ATCC), THP-1-O, O-THP-1, Tohoku Hospital Pediatrics-1

Cross References: BTO:BTO_0001370, CLO:CLO_0009348, CLO:CLO_0050999, EFO:EFO_0001253, MCCL:MCC:0000461, CLDB:cl4513, CLDB:cl4514, CLDB:cl4515, CLDB:cl4517, Abcam:ab271147, Abcam:ab275477, Abcam:ab281894, AddexBio:C0003024/4956, 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:TIB-202, BCRC:60430, BCRJ:0234, BEI_Resources:ARP-9942, BioGRID_ORCS_Cell_line:220, BioSample:SAMN03470795, BioSample:SAMN03473256, BioSample:SAMN03473419, BioSample:SAMN10987847, cancercellines:CVCL_0006, CCRID:1101HUM-PUMC000057, CCRID:1102HUM-NIFDC00058, CCRID:3101HUMSCSP567, CCRID:3101HUMTCHu57, CCRID:4201HUM-CCTCC00100, CCTCC:GDC0100, Cell_Model_Passport:SIDM01172, ChEMBL-Cells:ChEMBL3307574, ChEMBL-Targets:ChEMBL614245, CLS:300356, Cosmic:717684, Cosmic:724818, Cosmic:787480, Cosmic:909771, Cosmic:919122, Cosmic:924051, Cosmic:947361, Cosmic:975303, Cosmic:991556, Cosmic:996316, Cosmic:998748, Cosmic:1012124, Cosmic:1037666, Cosmic:1070694, Cosmic:1078722, Cosmic:1089517, Cosmic:1150901, Cosmic:1176587, Cosmic:1181604, Cosmic:1187864, Cosmic:1197931, Cosmic:1278779, Cosmic:1281356, Cosmic:1319551, Cosmic:1476425, Cosmic:1519163, Cosmic:1524842, Cosmic:1601064, Cosmic:1604863, Cosmic:2089655, Cosmic:2131559, Cosmic:2306241, Cosmic:2392976, Cosmic-CLP:909771, DepMap:ACH-000146, DSMZ:ACC-16, DSMZCellDive:ACC-16, ECACC:88081201, EGA:EGAS00001000610, EGA:EGAS00001000978, ENCODE:ENCBS248PAQ, ENCODE:ENCBS443IYN, ENCODE:ENCBS461BPB, ENCODE:ENCBS615XLU, ENCODE:ENCBS913QYS, ENCODE:ENCBS980LBL, FANTOM5_SSTAR:10399-106A3, FANTOM5_SSTAR:10400-106A4, FANTOM5_SSTAR:10405-106A9, GDSC:909771, GEO:GSM236807, GEO:GSM236843, GEO:GSM482495, GEO:GSM838432, GEO:GSM838433, GEO:GSM887706, GEO:GSM888799, GEO:GSM1374962, GEO:GSM1446742, GEO:GSM1670543, GEO:GSM2141952, GEO:GSM2141956, GEO:GSM2141958, GEO:GSM2141959, GEO:GSM2141962, GEO:GSM2141968, GEO:GSM2141972, GEO:GSM2141974, GEO:GSM2141979, GEO:GSM2141986, GEO:GSM2141987, GEO:GSM2141993, GEO:GSM2141995, GEO:GSM2141998, GEO:GSM2141999, GEO:GSM2142000, GEO:GSM2142004, GEO:GSM2142005, GEO:GSM2142009, GEO:GSM2142011, GEO:GSM2142015, GEO:GSM2142016, GEO:GSM2142019, GEO:GSM2142021, GEO:GSM2142023, GEO:GSM2142024, GEO:GSM2142028, GEO:GSM2142029, GEO:GSM2142030, GEO:GSM2142031, GEO:GSM2142036,

GEO:GSM2142037, GEO:GSM2142039, GEO:GSM2142048, GEO:GSM2142049, GEO:GSM2142052, GEO:GSM2142053, GEO:GSM2142055, GEO:GSM2142059, GEO:GSM2142060, GEO:GSM7701404, GEO:GSM7701405, IARC_TP53:2198, ICLC:HTL97014, IGRhCellID:THP1, IZSLER:BS TCL 138, JCRB:JCRB0112, JCRB:JCRB0112.1, KCB:KCB 200549YJ, KCLB:40202, LiGeA:CCL_181, LINCS_HMS:50861, LINCS_LDP:LCL-1072, Lonza:134, MeSH:D000074084, NCBI_Iran:C563, PharmacDB:THP1_1593_2019, PRIDE:PRD000345, PRIDE:PXD000328, PRIDE:PXD000953, PRIDE:PXD004034, PRIDE:PXD008516, PRIDE:PXD011690, PRIDE:PXD015039, PRIDE:PXD030304, Progenetix:CVCL_0006, PubChem_Cell_line:CVCL_0006, RCB:RCB1189, RCB:RCB3686, TKG:TKG 0267, Ubigen:YC-D011, Wikidata:Q7670282

ID: CVCL_0006

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Ratings and Alerts

No rating or validation information has been found for THP-1.

No alerts have been found for THP-1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 11783 mentions in open access literature.

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

Li J, et al. (2026) FNDC4 Drives Metastasis and Immune Evasion in Pancreatic Cancer. Cancer research, 86(2), 349.

Lee M, et al. (2026) LINE-1 Locus Transcription Nucleates Oncogenic Chromatin Architecture. Cancer discovery, 16(4), 800.

Qiao YL, et al. (2026) Notch2 Directs aTreg Cell Fate Toward Immunoregulation or Inflammatory Pyroptosis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(12), e11612.

Yu S, et al. (2026) A CLOCK-targeting lncRNA induces trained immunity against tuberculosis. Cell host & microbe, 34(1), 68.

Zhang J, et al. (2026) Tumor-associated macrophages educated by IGSF9 exhibit a senescence-associated secretory phenotype to promote tumor immune escape. Journal for immunotherapy of cancer, 14(1).

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Deng H, et al. (2026) IRF3 attenuates hypoxia signaling by retaining HIF-1 α in the cytoplasm. *Cell reports*, 45(1), 116815.

Song G, et al. (2026) Excessive Kynurenine Metabolism Impairs Lysosomal acidification and Triggers mtDNA Release via the AHR/CISH/ATP6V1A Axis in Decidual Macrophages Associated with Unexplained Recurrent Pregnancy Loss. *International journal of biological sciences*, 22(2), 895.

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Weinberg F, et al. (2026) Integrative Analysis of Multiomic Pathways Predicts Cancer-Affected Lobes in Lung Cancer. *Cancer prevention research (Philadelphia, Pa.)*, 19(4), 229.

Lu JT, et al. (2026) The Role of APOL1 in Necrotizing Enterocolitis and Its Promise as a Diagnostic Biomarker. *Mediators of inflammation*, 2026, 8637617.

Xiang C, et al. (2026) Immunoregulatory gene GIMAP6 suppresses lethal atherosclerotic vasculopathy and ischemic heart failure. *bioRxiv : the preprint server for biology*.

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Huang X, et al. (2026) Unified phase separation drives DNA-induced inflammasome activation of the AIM2-like receptors. *Cell reports*, 45(3), 117065.

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

Yang Q, et al. (2026) MSH6 regulates cGAS activity in antiviral and antitumor signaling pathways by governing its cytosolic/nuclear distribution. *Cell reports*, 45(3), 117059.