

Resource Summary Report

Generated by [NIF](#) on Sep 21, 2026

A-549

RRID:CVCL_0023

Type: Cell Line

Proper Citation

RRID:CVCL_0023

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0023

Proper Citation: RRID:CVCL_0023

Description: Cell line A-549 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Lung adenocarcinoma

Defining Citation: [PMID:77569](#), [PMID:175022](#), [PMID:327080](#), [PMID:375235](#), [PMID:833871](#), [PMID:842942](#), [PMID:924690](#), [PMID:1255758](#), [PMID:1855224](#), [PMID:2041050](#), [PMID:2388294](#), [PMID:3129183](#), [PMID:3335022](#), [PMID:3413074](#), [PMID:3518877](#), [PMID:3940644](#), [PMID:3945555](#), [PMID:4357758](#), [PMID:6148444](#), [PMID:6173755](#), [PMID:6256643](#), [PMID:6272398](#), [PMID:6500159](#), [PMID:6825208](#), [PMID:6935474](#), [PMID:6954533](#), [PMID:7065527](#), [PMID:7459858](#), [PMID:7736387](#), [PMID:8132585](#), [PMID:8263009](#), [PMID:8286010](#), [PMID:8626706](#), [PMID:9023415](#), [PMID:9178645](#), [PMID:9290701](#), [PMID:9331090](#), [PMID:9538136](#), [PMID:9636188](#), [PMID:9649128](#), [PMID:9673367](#), [PMID:9743595](#), [PMID:10358721](#), [PMID:10536175](#), [PMID:10700174](#), [PMID:11005564](#), [PMID:11369051](#), [PMID:11958134](#), [PMID:12661003](#), [PMID:12794755](#), [PMID:14581340](#), [PMID:15746151](#), [PMID:15748285](#), [PMID:15900046](#), [PMID:15999539](#), [PMID:16957166](#), [PMID:17088437](#), [PMID:17331233](#), [PMID:17332333](#), [PMID:17511773](#), [PMID:18083107](#), [PMID:19153074](#), [PMID:19372543](#), [PMID:19472407](#), [PMID:19608861](#), [PMID:19657000](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:20545000](#), [PMID:20557307](#), [PMID:21060948](#), [PMID:22068913](#), [PMID:22278370](#), [PMID:22282976](#), [PMID:22313637](#), [PMID:22336246](#), [PMID:22347499](#), [PMID:22384151](#), [PMID:22460905](#), [PMID:22481983](#), [PMID:22576795](#), [PMID:22628656](#), [PMID:22961666](#), [PMID:23325432](#), [PMID:23404217](#), [PMID:23856246](#), [PMID:23933261](#), [PMID:24135919](#), [PMID:24279929](#), [PMID:24618588](#), [PMID:24670534](#), [PMID:25120651](#), [PMID:25475639](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25960936](#), [PMID:25984343](#), [PMID:26202522](#), [PMID:26554430](#), [PMID:26589293](#), [PMID:27377824](#), [PMID:27397505](#), [PMID:27807467](#), [PMID:28114404](#),

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[PMID:35976051](#), [PMID:38861359](#)

Comments: Virology: Highly susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Characteristics: Expresses HPRT1 at the surface of the cell membrane (PubMed=28408844)., Population: Caucasian., Part of: NCI-7 clinical proteomics reference material cell line panel., Part of: NCI-60 cancer cell line panel., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: MD Anderson Cell Lines Project., Part of: KuDOS 95 cell line panel., Part of: JFCR39 cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ENCODE project common cell types; tier 2., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: A-549

Synonyms: A 549, A549, NCI-A549, A549/ATCC, A549 ATCC, A549ATCC, hA549

Cross References: BTO:BTO_0000018, CLO:CLO_0001601, CLO:CLO_0050025, EFO:EFO_0001086, CLDB:cl202, CLDB:cl203, CLDB:cl204, CLDB:cl205, CLDB:cl206, CLDB:cl207, CLDB:cl5100, CLDB:cl7131, 4DN:4DNSRFLY6T15, Abcam:ab255450, Abcam:ab259777, Abcam:ab275463, Abcam:ab288558, AddexBio:C0016002/23, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:CCL-185, ATCC:CRL-7909, ATCC:CRM-CCL-185, BCRC:60074, BCRJ:0033, BEI_Resources:NR-52268, BioGRID_ORCS_Cell_line:328, BioSample:SAMN01821615, BioSample:SAMN03472926, BioSample:SAMN10988257, cancerellines:CVCL_0023, CCLV:CCLV-RIE 1035, CCRID:1101HUM-PUMC000002, CCRID:1102HUM-NIFDC00008, CCRID:3101HUMSCSP503, CCRID:3101HUMTCHu150, CCRID:4201HUM-CCTCC00063, CCRID:5301HUM-KCB04034YJ, CCTCC:GDC0063, Cell_Model_Passport:SIDM00903, CGH-DB:202-1, CGH-DB:9164-4, ChEMBL-Cells:ChEMBL3307651, ChEMBL-Targets:ChEMBL392, CLS:300114, Cosmic:713864, Cosmic:716170, Cosmic:719675, Cosmic:735605, Cosmic:755468, Cosmic:801571, Cosmic:844592, Cosmic:844826, Cosmic:875854, Cosmic:876152, Cosmic:877443, Cosmic:889090, Cosmic:905949, Cosmic:910552, Cosmic:910560, Cosmic:914947, Cosmic:917386, Cosmic:917972, Cosmic:929148, Cosmic:929962, Cosmic:932915, Cosmic:961833, Cosmic:974287, Cosmic:1004698, Cosmic:1017830, Cosmic:1028950, Cosmic:1047097, Cosmic:1089216, Cosmic:1092591, Cosmic:1146871, Cosmic:1152518, Cosmic:1154597, Cosmic:1188587, Cosmic:1219057, Cosmic:1239867, Cosmic:1305342, Cosmic:1312328, Cosmic:1352406, Cosmic:1434961, Cosmic:1436014, Cosmic:1466799, Cosmic:1571729, Cosmic:1600605, Cosmic:1608839, Cosmic:1656896, Cosmic:1802312, Cosmic:1870260, Cosmic:1945870, Cosmic:1995337, Cosmic:1998433, Cosmic:2036687, Cosmic:2042861, Cosmic:2058649, Cosmic:2125176, Cosmic:2301571, Cosmic:2433750, Cosmic:2560224, Cosmic:2630410, Cosmic:2647635, Cosmic:2664115, Cosmic:2668269, Cosmic:2668304, Cosmic:2749159, Cosmic:2756374, Cosmic:2772163, Cosmic-CLP:905949, DepMap:ACH-000681, DSMZ:ACC-107,

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Record Creation Time: 20220427T215104+0000

Record Last Update: 20260920T011707+0000

Ratings and Alerts

No rating or validation information has been found for A-549.

Warning: Discontinued: ATCC; CRL-7909

Virology: Highly susceptible to infection by Zika virus (ZIKV) (PubMed=29468137).,

Characteristics: Expresses HPRT1 at the surface of the cell membrane

(PubMed=28408844)., Population: Caucasian., Part of: NCI-7 clinical proteomics

reference material cell line panel., Part of: NCI-60 cancer cell line panel., Part of: Naval

Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: MD

Anderson Cell Lines Project., Part of: KuDOS 95 cell line panel., Part of: JFCR39 cancer

cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ENCODE project

common cell types; tier 2., Part of: COSMIC cell lines project., Part of: Cancer

Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 28006 mentions in open access literature.

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

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Wang Y, et al. (2026) A blood-brain barrier-like vascular gate limits immunotherapy efficacy in neuroendocrine cancers. *Cell*, 189(13), 3922.

Yang L, et al. (2026) Trichostatin Analogues From the Karst Cave Associated *Streptomyces* sp. DX6D14. *Chemistry & biodiversity*, 23(5), e71334.

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De Boni L, et al. (2026) Placing purines in precision medicine: Targeting a metabolic reliance in KRAS-mutant tumors. *iScience*, 29(3), 114954.

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