

Resource Summary Report

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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)

Sex: Male

Defining Citation:

[PMID:77569](#), [PMID:175022](#), [PMID:327080](#), [PMID:375235](#), [PMID:833871](#), [PMID:842942](#),
[PMID:924690](#), [PMID:1855224](#), [PMID:2041050](#), [PMID:2388294](#), [PMID:3129183](#),
[PMID:3335022](#), [PMID:3413074](#), [PMID:3518877](#), [PMID:3940644](#), [PMID:3945555](#),
[PMID:4357758](#), [PMID:6148444](#), [PMID:6256643](#), [PMID:6272398](#), [PMID:6500159](#),
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[PMID:35839778](#), [PMID:35976051](#)

Comments: Omics: Virome analysis using proteomics., Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: shRNA library screening., Omics: Proteome analysis by 2D-DE/MS., Omics: Protein expression by reverse-phase protein arrays., Omics: Metabolome analysis., Omics: lncRNA expression profiling., Omics: Fluorescence phenotype profiling., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: Deep phosphoproteome analysis., Omics: Deep membrane proteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: CRISPR phenotypic screen., Omics: H3K9ac ChIP-seq epigenome analysis., Omics: H3K4me3 ChIP-seq epigenome analysis., Omics: CTCF ChIP-seq epigenome analysis., Omics: CNV analysis., Omics: Array-based CGH., Omics: Acetylation analysis by proteomics., 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: 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

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:CRM-CCL-185, ATCC:CRL-7909, BCRC:60074, BCRJ:0033, BEI_Resources:NR-52268, BioGRID_ORCS_Cell_line:328, BioSample:SAMN01821615, BioSample:SAMN03472926, BioSample:SAMN10988257, cancercellines: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, DSMZCellDive:ACC-107, EGA:EGAS00001000610, EGA:EGAS00001000978, EGA:EGAS00001002554, ECACC:86012804, ENCODE:ENCBS000CWG, ENCODE:ENCBS002UWD, ENCODE:ENCBS003GAH, ENCODE:ENCBS004IAZ, ENCODE:ENCBS004LAJ, ENCODE:ENCBS004PAW, ENCODE:ENCBS004RKE, ENCODE:ENCBS004XDE, ENCODE:ENCBS005TRZ, ENCODE:ENCBS006JGY, ENCODE:ENCBS006KFZ, ENCODE:ENCBS006TYD, ENCODE:ENCBS007LES, ENCODE:ENCBS009FYJ, ENCODE:ENCBS009OIC, ENCODE:ENCBS009OYK, ENCODE:ENCBS010CCH, ENCODE:ENCBS011GKY, ENCODE:ENCBS012BFT, ENCODE:ENCBS012TTG, ENCODE:ENCBS013GXJ, ENCODE:ENCBS013HGJ, ENCODE:ENCBS013HOT, ENCODE:ENCBS015HRP, ENCODE:ENCBS016CUF, ENCODE:ENCBS016ESU, ENCODE:ENCBS016VTZ, ENCODE:ENCBS017CJM, ENCODE:ENCBS018TOF, ENCODE:ENCBS021JVU, ENCODE:ENCBS022OPA, ENCODE:ENCBS023FRY, ENCODE:ENCBS024QOG, ENCODE:ENCBS025UWS, ENCODE:ENCBS026DZZ, ENCODE:ENCBS027OSU, ENCODE:ENCBS029TTL, ENCODE:ENCBS032DUJ, ENCODE:ENCBS032EMA, ENCODE:ENCBS032WTC, ENCODE:ENCBS033HGM,

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Record Creation Time: 20250131T193537+0000

Record Last Update: 20250131T193617+0000

Ratings and Alerts

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

Warning: Discontinued: ATCC; CRL-7909

Omics: Virome analysis using proteomics., Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: shRNA library screening., Omics: Proteome analysis by 2D-DE/MS., Omics: Protein expression by reverse-phase protein arrays., Omics: Metabolome analysis., Omics: lncRNA expression profiling., Omics: Fluorescence phenotype profiling., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: Deep phosphoproteome analysis., Omics: Deep membrane proteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: CRISPR phenotypic screen., Omics: H3K9ac ChIP-seq epigenome analysis., Omics: H3K4me3 ChIP-seq epigenome analysis., Omics: CTCF ChIP-seq epigenome analysis., Omics: CNV analysis., Omics: Array-based CGH., Omics: Acetylation analysis by proteomics., 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: 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 27506 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Ramponi V, et al. (2025) H4K20me3-Mediated Repression of Inflammatory Genes Is a Characteristic and Targetable Vulnerability of Persister Cancer Cells. *Cancer research*, 85(1), 32.

Sasaki M, et al. (2025) Efficacy of CBP/p300 Dual Inhibitors against Derepression of KREMEN2 in cBAF-Deficient Cancers. *Cancer research communications*, 5(1), 24.

Wang L, et al. (2025) Demethylzylasteral inhibits oxidative phosphorylation complex biogenesis by targeting LRPPRC in lung cancer. *Journal of Cancer*, 16(1), 227.

Yoshida Y, et al. (2025) Targeting macrophage circadian rhythms with microcurrent stimulation to activate cancer immunity through phagocytic defense. *Theranostics*, 15(2), 340.

Vallbracht M, et al. (2025) Nucleocapsid assembly drives Ebola viral factory maturation and dispersion. *Cell*, 188(3), 704.

Burger N, et al. (2025) The human zinc-binding cysteine proteome. *Cell*, 188(3), 832.

Conlon JM, et al. (2024) Multifunctional host-defense peptides isolated from skin secretions of the banana tree dwelling frog *Boana platanera* (Hylidae; Hylinae). *Biochimie*, 223, 23.

Zhang F, et al. (2024) Housekeeping U1 snRNA facilitates antiviral innate immunity by promoting TRIM25-mediated RIG-I activation. *Cell reports*, 43(3), 113945.

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Xu X, et al. (2024) CD74-ROS1 L2026M mutant enhances autophagy through the MEK/ERK pathway to promote invasion, metastasis and crizotinib resistance in non-small cell lung cancer cells. *The FEBS journal*, 291(6), 1199.

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Myint KZ, et al. (2024) Therapeutic Implications of Ceritinib in Cholangiocarcinoma beyond ALK Expression and Mutation. *Pharmaceuticals (Basel, Switzerland)*, 17(2).

Liu X, et al. (2024) The deubiquitinase BAP1 and E3 ligase UBE3C sequentially target IRF3 to activate and resolve the antiviral innate immune response. *Cell reports*, 43(8), 114608.

M Saini V, et al. (2024) A comparative study of circulating tumor cell isolation and enumeration technologies in lung cancer. *Molecular oncology*.

Mullen NJ, et al. (2024) DHODH inhibition enhances the efficacy of immune checkpoint blockade by increasing cancer cell antigen presentation. *eLife*, 12.

Yang C, et al. (2024) Arginine deprivation enriches lung cancer proteomes with cysteine by inducing arginine-to-cysteine substituents. *Molecular cell*, 84(10), 1904.

Takami M, et al. (2024) Anti-V α 24J β 18 TCR Antibody Tunes iNKT Cell Responses to Target and Kill CD1d-negative Tumors in an Fc γ RII (CD32)-dependent Manner. *Cancer research communications*, 4(2), 446.