

Resource Summary Report

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

NCI-H647

RRID:CVCL_1574

Type: Cell Line

Proper Citation

RRID:CVCL_1574

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_1574

Proper Citation: RRID:CVCL_1574

Description: Cell line NCI-H647 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Lung adenosquamous carcinoma

Defining Citation: [PMID:1311061](#), [PMID:1565469](#), [PMID:3335022](#), [PMID:8806092](#), [PMID:11030152](#), [PMID:20215515](#), [PMID:22460905](#), [PMID:25877200](#), [PMID:26589293](#), [PMID:27397505](#), [PMID:29444439](#), [PMID:29681454](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31803961](#), [PMID:31978347](#), [PMID:35839778](#)

Comments: Population: Caucasian., Part of: NCI RAS program mutant KRAS cell line panel., 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: NCI-H647

Synonyms: H647, H-647, H647ell, NCIH647

Cross References: BTO:BTO_0005294, CLO:CLO_0008100, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:CRL-5834, BioSample:SAMN03471319, BioSample:SAMN10988271, cancercellines:CVCL_1574, Cell_Model_Passport:SIDM01125, ChEMBL-Cells:ChEMBL3308691, ChEMBL-Targets:ChEMBL614999, CLS:305130, Cosmic:722060, Cosmic:903577, Cosmic:931370, Cosmic:980966, Cosmic:1032438, Cosmic:1146921, Cosmic:1891887,

Cosmic-CLP:1240191, DepMap:ACH-000378, EGA:EGAS00001000978, GDSC:1240191, GEO:GSM206497, GEO:GSM274809, GEO:GSM274810, GEO:GSM434311, GEO:GSM513970, GEO:GSM514351, GEO:GSM784213, GEO:GSM794295, GEO:GSM817076, GEO:GSM827587, GEO:GSM844657, GEO:GSM844658, GEO:GSM887438, GEO:GSM888518, GEO:GSM1374758, GEO:GSM1670254, IARC_TP53:996, IGRhCellID:H647GEO, KCLB:90647, LiGeA:CCLE_620, LINCS_LDP:LCL-1629, PharmacoDB:NCIH647_1124_2019, PRIDE:PXD030304, Progenetix:CVCL_1574, PubChem_Cell_line:CVCL_1574, Wikidata:Q54908092

ID: CVCL_1574

Record Creation Time: 20220427T220840+0000

Record Last Update: 20260920T004618+0000

Ratings and Alerts

No rating or validation information has been found for NCI-H647.

Warning: Discontinued: KCLB; 90647

Population: Caucasian., Part of: NCI RAS program mutant KRAS cell line panel., 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 11 mentions in open access literature.

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

Sun W, et al. (2026) Reconstruction of T cell infiltration in an osteosarcoma PDX-organoid interactive biobank for personalized immunotherapy. Cell reports. Medicine, 7(3), 102644.

Sasaki N, et al. (2025) RNA sensing induced by chromosome missegregation augments anti-tumor immunity. Molecular cell, 85(4), 770.

Koh DI, et al. (2024) The Immune Suppressor IGSF1 as a Potential Target for Cancer Immunotherapy. Cancer immunology research, 12(4), 491.

Suvilesh KN, et al. (2024) Targeting AKR1B10 by Drug Repurposing with Epalrestat Overcomes Chemoresistance in Non-Small Cell Lung Cancer Patient-Derived Tumor Organoids. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(17), 3855.

Rodina A, et al. (2023) Systems-level analyses of protein-protein interaction network dysfunctions via epichaperomics identify cancer-specific mechanisms of stress adaptation.

Nature communications, 14(1), 3742.

Biswas S, et al. (2023) Targeting intracellular oncoproteins with dimeric IgA promotes expulsion from the cytoplasm and immune-mediated control of epithelial cancers. *Immunity*, 56(11), 2570.

Kitajima S, et al. (2022) MPS1 inhibition primes immunogenicity of KRAS-LKB1 mutant lung cancer. *Cancer cell*, 40(10), 1128.

Gozgit JM, et al. (2021) PARP7 negatively regulates the type I interferon response in cancer cells and its inhibition triggers antitumor immunity. *Cancer cell*, 39(9), 1214.

Yenerall P, et al. (2020) RUVBL1/RUVBL2 ATPase Activity Drives PAQosome Maturation, DNA Replication and Radioresistance in Lung Cancer. *Cell chemical biology*, 27(1), 105.

Yin N, et al. (2019) Protein Kinase C β and Wnt/ β -Catenin Signaling: Alternative Pathways to Kras/Trp53-Driven Lung Adenocarcinoma. *Cancer cell*, 36(2), 156.

Takahashi N, et al. (2018) Cancer Cells Co-opt the Neuronal Redox-Sensing Channel TRPA1 to Promote Oxidative-Stress Tolerance. *Cancer cell*, 33(6), 985.