

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

NCI-H520

RRID:CVCL_1566

Type: Cell Line

Proper Citation

RRID:CVCL_1566

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_1566

Proper Citation: RRID:CVCL_1566

Description: Cell line NCI-H520 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Lung squamous cell carcinoma

Defining Citation: [PMID:1311061](#), [PMID:2388294](#), [PMID:3335022](#), [PMID:3940644](#), [PMID:8806092](#), [PMID:9649128](#), [PMID:10358721](#), [PMID:10536175](#), [PMID:11005564](#), [PMID:11030152](#), [PMID:11369051](#), [PMID:16187286](#), [PMID:18083107](#), [PMID:19472407](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:20557307](#), [PMID:22460905](#), [PMID:22961666](#), [PMID:24002593](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:26589293](#), [PMID:27397505](#), [PMID:27602502](#), [PMID:28196595](#), [PMID:29681454](#), [PMID:30894373](#), [PMID:30971826](#), [PMID:31068700](#), [PMID:31803961](#), [PMID:31978347](#), [PMID:35839778](#)

Comments: Population: Caucasian., Part of: MD Anderson Cell Lines Project., 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-H520

Synonyms: H520, H-520, NCI-HUT-520, NCIH520

Cross References: BTO:BTO_0003014, CLO:CLO_0008093, EFO:EFO_0003124, AddexBio:C0016010/4915, ArrayExpress:E-MTAB-38, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610,

ATCC:HTB-182, BCRC:60124, BioGRID_ORCS_Cell_line:521, BioSample:SAMN03471318, BioSample:SAMN03472735, BioSample:SAMN10987782, cancercellines:CVCL_1566, CCRID:5301HUM-KCB13023YJ, Cell_Model_Passport:SIDM01130, ChEMBL-Cells:ChEMBL3307864, ChEMBL-Targets:ChEMBL614099, CLS:305063, Cosmic:687826, Cosmic:801591, Cosmic:876172, Cosmic:908443, Cosmic:917988, Cosmic:929974, Cosmic:932932, Cosmic:933580, Cosmic:945226, Cosmic:1028955, Cosmic:1146918, Cosmic:1219078, Cosmic:1239911, Cosmic:1741782, Cosmic:1802297, Cosmic:1995581, Cosmic:2060526, Cosmic:2125253, Cosmic:2560231, Cosmic:2648439, Cosmic:2664123, Cosmic:2668328, Cosmic:2696404, Cosmic:2772157, Cosmic-CLP:908443, DepMap:ACH-000395, EGA:EGAS00001000610, EGA:EGAS00001000978, EGA:EGAS00001002554, GDSC:908443, GEO:GSM63353, GEO:GSM206494, GEO:GSM274798, GEO:GSM274831, GEO:GSM276781, GEO:GSM276782, GEO:GSM434281, GEO:GSM784258, GEO:GSM794290, GEO:GSM844653, GEO:GSM844654, GEO:GSM887433, GEO:GSM888513, GEO:GSM1374750, GEO:GSM1670247, IARC_TP53:519, IARC_TP53:21409, IGRhCellID:NCIH520, KCB:KCB 2013023YJ, LiGeA:CCL_877, LINCS_LDP:LCL-1591, PharmacDB:NCIH520_1117_2019, PRIDE:PXD030304, Progenetix:CVCL_1566, PubChem_Cell_line:CVCL_1566, Ubigen:YC-C017, Wikidata:Q54908073

ID: CVCL_1566

Record Creation Time: 20220427T220840+0000

Record Last Update: 20260905T181246+0000

Ratings and Alerts

No rating or validation information has been found for NCI-H520.

No alerts have been found for NCI-H520.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 261 mentions in open access literature.

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

Brady MR, et al. (2026) Macropinocytosis and Vascularization Determine Response to mTOR Inhibitors in Lung Squamous Cell Carcinoma. Cancer research, 86(5), 1166.

Zhao X, et al. (2026) Deep learning reveals FLAD1-mediated mitochondrial metabolic reprogramming in hypoxic tumors. Cell reports, 45(7), 117711.

Wang Y, et al. (2026) Targeting SERPINE1 enhances PD-1 blockade response by modulating macrophage infiltration and polarization through the STAT3-CCL2 axis in non-

small cell lung cancer. *International immunopharmacology*, 178, 116577.

Pan K, et al. (2026) Lysine methylation-mediated SMYD2 degradation by casticin sensitizes non-small-cell lung cancer cells to osimertinib therapy. *Biochemical pharmacology*, 243(Pt 2), 117562.

Izzo LT, et al. (2026) KLF4 Promotes a KRT13+ Hillock-Like State in Lung Squamous Cell Carcinoma. *Cancer research*.

Wei Y, et al. (2026) High-throughput ligand discovery in living cells using the cellular protein stability enhancement assay. *Acta pharmaceutica Sinica. B*, 16(7), 4524.

Zhao W, et al. (2026) C1RL-AS1/microRNA-424-5p/adrenoceptor β_2 axis: A novel regulatory mechanism in lung adenocarcinoma associated with immune infiltration and prognosis. *PloS one*, 21(3), e0343805.

McCabe M, et al. (2025) Small molecule disruption of RAR α /NCoR1 interaction inhibits chaperone-mediated autophagy in cancer. *EMBO molecular medicine*, 17(7), 1716.

Park J, et al. (2025) MYC plus class IIa HDAC inhibition drives mitochondrial dysfunction in non-small cell lung cancer. *Cell reports*, 44(6), 115722.

Jeong J, et al. (2025) NSD2 inhibitors rewire chromatin to treat lung and pancreatic cancers. *Nature*.

Tedeschi A, et al. (2025) Pan-KRAS Inhibitors BI-2493 and BI-2865 Display Potent Antitumor Activity in Tumors with KRAS Wild-type Allele Amplification. *Molecular cancer therapeutics*, 24(4), 550.

Liu C, et al. (2025) Chronic Stress Stimulates Protumor Macrophage Polarization to Propel Lung Cancer Progression. *Cancer research*, 85(13), 2429.

Yu J, et al. (2025) PIN1 serves as a prognostic and therapeutic biomarker in lung adenocarcinoma. *Functional & integrative genomics*, 25(1), 121.

Nishikubo K, et al. (2025) Sustained reductions in valine and isoleucine mediate anti-cancer pharmacological effects of inhibiting amino acid transporter LAT1 in cancer cells. *Cancer & metabolism*, 13(1), 46.

Cheng MH, et al. (2025) Magnolol facilitates mitochondrial-peroxisome dysfunction and induces oxelptosis in lung cancer cells following transfer via tunneling nanotubes. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 187, 118126.

Chi H, et al. (2025) SEMA3G-NRP1 Signaling Functions as an Immune Checkpoint That Enables Tumor Immune Evasion by Impairing T-cell Cytotoxicity. *Cancer research*, 85(5), 912.

Jiang Y, et al. (2025) USP8 deubiquitylation-boosted NSUN4 potentiates lung squamous cell carcinoma progression by m5C methylation of DHCR24. *Cell reports*, 44(8), 116158.

Kahlhofer J, et al. (2025) TXNIP mediates LAT1/SLC7A5 endocytosis to limit amino acid uptake in cells entering quiescence. *The EMBO journal*, 44(23), 7119.

Alpsoy A, et al. (2025) Structural basis of DNA-dependent coactivator recruitment by the tuft cell master regulator POU2F3. *Cell reports*, 44(11), 116572.

Morel M, et al. (2024) FBXL16 promotes cell growth and drug resistance in lung adenocarcinomas with KRAS mutation by stabilizing IRS1 and upregulating IRS1/AKT signaling. *Molecular oncology*, 18(3), 762.