

Resource Summary Report

Generated by [RRID](#) on Aug 31, 2026

HBEC3-KT

RRID:CVCL_X491

Type: Cell Line

Proper Citation

ABM Cat# T0753, RRID:CVCL_X491

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_X491

Proper Citation: ABM Cat# T0753, RRID:CVCL_X491

Description: Cell line HBEC3-KT is a Telomerase immortalized cell line with a species of origin Homo sapiens (Human)

Sex: Female

Defining Citation: [PMID:15604268](#), [PMID:20079948](#), [PMID:20624269](#), [PMID:21760947](#), [PMID:24240690](#), [PMID:29681454](#), [PMID:32586780](#)

Comments: Part of: Human Protein Atlas, Cell Atlas panel.

Category: Telomerase immortalized cell line

Organism: Homo sapiens (Human)

Name: HBEC3-KT

Synonyms: HBEC3 KT, HBEC 3KT, HBEC3KT, HBEC3 Cdk4-hTERT, HBEC3

Cross References: ABM:T0753, ATCC:CRL-4051, Evercyte:CkHT-004-0230, GEO:GSM171895, GEO:GSM253438, GEO:GSM794409, GEO:GSM7701486, GEO:GSM7701487, Wikidata:Q54881400

ID: CVCL_X491

Vendor: ABM

Catalog Number: T0753

Record Creation Time: 20250423T100335+0000

Record Last Update: 20260830T002731+0000

Ratings and Alerts

No rating or validation information has been found for HBEC3-KT.

No alerts have been found for HBEC3-KT.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Almansour F, et al. (2026) TAD boundaries and gene activity are uncoupled. eLife, 15.

Zhong Y, et al. (2026) SREBP-1 upregulates SOAT1 to promote tumor growth by preventing lipotoxicity. Cell reports, 45(2), 116896.

Sood V, et al. (2026) Protocol to measure transcriptional bursting of endogenous genes using high-throughput RNA-FISH. STAR protocols, 7(2), 104441.

Cui W, et al. (2026) DNA methylation landscapes in human cells and their chromatin determinants. Ageing and cancer research & treatment, 3(1).

Parker RE, et al. (2025) High PER1 expression is associated with STK11 mutation and clinical biomarkers of immunotherapy resistance in lung adenocarcinoma. Journal of cancer research and clinical oncology, 151(7), 223.

Sood V, et al. (2025) Identification of molecular determinants of gene-specific bursting patterns by high-throughput imaging screens. Molecular cell, 85(5), 913.

Lafargue A, et al. (2025) Twist1-induced suppression of oncogene-induced senescence in non-small cell lung cancer requires the transactivation domain of Twist1. Neoplasia (New York, N.Y.), 66, 101179.

Lynch M, et al. (2025) Phase 2a/b randomised placebo-controlled dose-escalation trial of triheptanoin for ataxia-telangiectasia: treating mitochondrial dysfunction with anaplerosis. EBioMedicine, 118, 105840.

Nguyen T, et al. (2024) TNIK inhibition sensitizes TNIK-overexpressing lung squamous cell carcinoma to radiotherapy. Molecular cancer therapeutics.

Cui W, et al. (2023) Deficiency of the Polycomb Protein RYBP and TET Methylcytosine Oxidases Promotes Extensive CpG Island Hypermethylation and Malignant Transformation. Cancer research, 83(15), 2480.

Itakura H, et al. (2023) Tumor-suppressive role of the musculoaponeurotic fibrosarcoma gene in colorectal cancer. iScience, 26(4), 106478.

Wang X, et al. (2023) Griseofulvin Radiosensitizes Non-Small Cell Lung Cancer Cells and Activates cGAS. *Molecular cancer therapeutics*, 22(4), 519.

Reggiardo RE, et al. (2022) Mutant KRAS regulates transposable element RNA and innate immunity via KRAB zinc-finger genes. *Cell reports*, 40(3), 111104.

Patange S, et al. (2022) MYC amplifies gene expression through global changes in transcription factor dynamics. *Cell reports*, 38(4), 110292.

Sompel K, et al. (2022) Iloprost requires the Frizzled-9 receptor to prevent lung cancer. *iScience*, 25(6), 104442.

Slusher AL, et al. (2022) Intronic Cis-Element DR8 in hTERT Is Bound by Splicing Factor SF3B4 and Regulates hTERT Splicing in Non-Small Cell Lung Cancer. *Molecular cancer research : MCR*, 20(10), 1574.

Yasui H, et al. (2021) Near-infrared photoimmunotherapy targeting GPR87: Development of a humanised anti-GPR87 mAb and therapeutic efficacy on a lung cancer mouse model. *EBioMedicine*, 67, 103372.

Gokey JJ, et al. (2021) YAP regulates alveolar epithelial cell differentiation and AGER via NFIB/KLF5/NKX2-1. *iScience*, 24(9), 102967.

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.

Vaz M, et al. (2017) Chronic Cigarette Smoke-Induced Epigenomic Changes Precede Sensitization of Bronchial Epithelial Cells to Single-Step Transformation by KRAS Mutations. *Cancer cell*, 32(3), 360.