Resource Summary Report

Generated by dkNET on Sep 7, 2026

RT-4

RRID:CVCL_0036
Type: Cell Line

Proper Citation

RRID:CVCL_0036

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0036

Proper Citation: RRID:CVCL_0036

Description: Cell line RT-4 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Bladder carcinoma

Defining Citation: PMID:77569, PMID:327080, PMID:571047, PMID:833871, PMID:864752, PMID:870558, PMID:1114348, PMID:3518877, PMID:3708594, PMID:5503601, PMID:6220172, PMID:6244232, PMID:6582512, PMID:6823318, PMID:7017212, PMID:7459858, PMID:7787250, PMID:8873383, PMID:9850064, PMID:11207054, PMID:11921286, PMID:15846775, PMID:16885334, PMID:16957166, PMID:20164919, PMID:20215515, PMID:22460905, PMID:23401075, PMID:24018021, PMID:24035680, PMID:24367658, PMID:25485619, PMID:25877200, PMID:25960936, PMID:25997541, PMID:26055179, PMID:26589293, PMID:27270441, PMID:27397505, PMID:28855393, PMID:29732388, PMID:30894373, PMID:31068700, PMID:31395879, PMID:31978347, PMID:35839778

Comments: Population: Caucasian., Part of: UBC-40 urothelial bladder cancer cell line index., Part of: TCGA-110-CL cell line panel., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ERK genetic alteration cell panel (ATCC TCP-1033)., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Part of: BLA-40 bladder carcinoma cell line panel.

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: RT-4

Synonyms: RT4, RT4P

Cross References: BTO:BTO_0002870, CLO:CLO_0008892, EFO:EFO_0006480, CLDB:cl4197, CLDB:cl4198, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:CRL-7937, ATCC:HTB-2, BCRC:60111, BCRJ:0214, BioGRID_ORCS_Cell_line:382, BioSample:SAMN03473092, BioSample:SAMN10988330, cancercelllines:CVCL_0036, CCRID:3101HUMTCHu226, CCRID:5301HUM-KCB16045YJ, Cell_Model_Passport:SIDM01085, ChEMBL-Cells:CHEMBL3307430, ChEMBL-Targets:CHEMBL614884, CLS:300326, Cosmic:687455, Cosmic:715805, Cosmic:755396, Cosmic:760479, Cosmic:845560, Cosmic:846283, Cosmic:867839, Cosmic:925819, Cosmic:928816, Cosmic:943749, Cosmic:1016881, Cosmic:1046681, Cosmic:1068091, Cosmic:1285125, Cosmic:1285983, Cosmic:1819325, Cosmic:1927301, Cosmic:2037955, Cosmic:2050460, Cosmic:2057455, Cosmic:2444250, Cosmic:2686112, Cosmic:2700996, Cosmic-CLP:687455, DepMap:ACH-000242, DSMZ:ACC-412, DSMZCellDive:ACC-412, ECACC:91091914, EGA:EGAS00001000610, EGA:EGAS00001000978, GDSC:687455, GEO:GSM136232, GEO:GSM763024, GEO:GSM827439, GEO:GSM887553, GEO:GSM888636, GEO:GSM1374859, GEO:GSM1574570, GEO:GSM1670394, GEO:GSM7701369, GEO:GSM7701370, IARC_TP53:21088, KCB:KCB 2016045YJ, KCLB:30002, LiGeA:CCLE_210, LINCS_LDP:LCL-1717, PharmacoDB:RT4_1334_2019, PRIDE:PXD030304, Progenetix:CVCL_0036, PubChem_Cell_line:CVCL_0036, SKY/M-FISH/CGH:1462, Wikidata:Q54951351

ID: CVCL_0036

Record Creation Time: 20220427T221508+0000

Record Last Update: 20260905T182236+0000

Ratings and Alerts

No rating or validation information has been found for RT-4.

Warning: Discontinued: ATCC; CRL-7937
Population: Caucasian., Part of: UBC-40 urothelial bladder cancer cell line index., Part of: TCGA-110-CL cell line panel., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Part of: Human Protein Atlas, Cell Atlas panel., Part of: ERK genetic alteration cell panel (ATCC TCP-1033)., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Part of: BLA-40 bladder carcinoma cell line panel.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 38 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Le T, et al. (2026) Cell shapes decode molecular phenotypes in image-based spatial proteomics. Cell systems, 17(6), 101589.

Luan Y, et al. (2026) Mechanisms of Aristolochic Acid Resistance in Specialist Butterflies and Evolutionary Insights for Potential Protective Pathways. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e18072.

O'Callaghan LA, et al. (2026) The Antipsychotic Aripiprazole Induces Cytotoxicity in Bladder Cancer Cells While Preserving Urothelial and Bladder Function. Pharmacology research & perspectives, 14(3), e70260.

Iskender B, et al. (2026) Reprogramming-driven Proteomic Shifts Mirror Bladder Cancer Progression and Reveal Biomarker Candidates Across Disease Grades. Cancer genomics & proteomics, 23(4), 777.

Zhao B, et al. (2026) XPC Deficiency Activate Cisplatin-Mediated Autophagy in Bladder Cancer by Limiting Novel PHRF1-Mediated Ubiquitination of the p53 Protein. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(5), e17563.

Wu J, et al. (2026) O-GlcNAcylated TAP1 Impairs Antigen Presentation and Promotes Immune Evasion in Bladder Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(37), e19955.

Pece A, et al. (2026) Glycosylated LGALS3BP is highly secreted by bladder cancer cells and represents a novel urinary disease biomarker. Molecular oncology, 20(3), 823.

Stuckey JI, et al. (2026) Covalent PPAR? inverse agonism by FX-909 reveals mechanistic insights into therapeutic targeting of PPAR?/RXR?-activated urothelial carcinoma. Cell chemical biology, 33(6), 837.

Nelson KL, et al. (2025) VAX014 Activates Tumor-Intrinsic STING and RIG-I to Promote the Development of Antitumor Immunity. Molecular cancer therapeutics, 24(4), 587.

Chen C, et al. (2025) TERC Stimulates Fatty Acid Metabolism to Promote Bladder Cancer Progression. Cancer research, 85(19), 3689.

Takemoto K, et al. (2025) DGK? Enhances Tumorigenic Activity in Bladder Cancer Patients With Chronic Kidney Disease. Cancer medicine, 14(5), e70710.

Yu Y, et al. (2025) A Genome-Wide Synthetic Lethal Screen Identifies Spermidine Synthase as a Target to Enhance Erdafitinib Efficacy in FGFR-Mutant Bladder Cancer. Cancer research, 85(12), 2288.

Wang X, et al. (2025) PIN1 Prolyl Isomerase Promotes Initiation and Progression of Bladder Cancer through the SREBP2-Mediated Cholesterol Biosynthesis Pathway. Cancer discovery, 15(3), 633.

Reinhold A, et al. (2025) Ionizing radiation and photodynamic therapy lead to multimodal tumor cell death, synergistic cytotoxicity and immune cell invasion in human bladder cancer organoids. Photodiagnosis and photodynamic therapy, 51, 104459.

Žeželj L, et al. (2025) Sensing of cardiolipin exposure on plasma membranes of apoptotic cells by EryA-mCherry protein. The FEBS journal.

Hatayama T, et al. (2025) Crucial Contribution of BACH1 to Bladder Cancer Progression via Upregulating Epithelial-Mesenchymal Transition Pathway. Cancer science.

Graham K, et al. (2024) Discovery of YAP1/TAZ pathway inhibitors through phenotypic screening with potent anti-tumor activity via blockade of Rho-GTPase signaling. Cell chemical biology, 31(7), 1247.

Chen H, et al. (2024) circKDM1A suppresses bladder cancer progression by sponging miR-889-3p/CPEB3 and stabilizing p53 mRNA. iScience, 27(4), 109624.

Ranti D, et al. (2024) HLA-E and NKG2A Mediate Resistance to M. bovis BCG Immunotherapy in Non-Muscle-Invasive Bladder Cancer. bioRxiv : the preprint server for biology.

Hernández-Prat A, et al. (2024) Enhancing immunotherapy through PD-L1 upregulation: the promising combination of anti-PD-L1 plus mTOR inhibitors. Molecular oncology.