

Product sheet

RT-4 | 300326

Cell Line

<b>Description</b>	Human cell line established in 1970 by Rigby et al.
<b>Organism</b>	Human
<b>Tissue</b>	Epithelial cells
<b>Disease</b>	Epithelial carcinoma
<b>Synonyms</b>	RT4, RT4P

Cell Line Characteristics

<b>Age</b>	63 years
<b>Gender</b>	Male
<b>Ethnicity</b>	White
<b>Morphology</b>	Epithelial cells
<b>Growth properties</b>	Adherent

Cell Line Identification

<b>Citation</b>	RT-4 (ATCC CCL-22) Cytion 300326
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_0036

Cell Line Application

<b>Protein expression</b>	P53
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**Antigen expression** HLA A25(10), A3, B12, Cw3, HLA-DP2

**Isoenzymes** Me-2, 1, PGM1, 1-2, PGM3, 1-2, ES-D, 1-2, AK-1, 1, GLO-1, 1-2, G6PD, B, HLA-DP2 0.0050

**Tumorigenic** No, not tumorigenic in nude mice

**Karyotype** (P174) 46,XX,t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11),t(1;12)(p11;p11)

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**Culture Medium** EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Gibco Cytion 820100a)

**Supplements** Gibco Cytion 10% FBS 1% NEAA

**Dissociation Reagent** Trypsin

**Subculturing** Seed cells into 25 cm<sup>2</sup> flasks in EMEM (MEM Eagle) + 2 mM L-Glutamine + 2.2 g/L NaHCO3 + EBSS (Gibco Cytion 820100a) + 10% FBS + 1% NEAA. Split ratio 1:2 to 1:4.

**Split ratio** 1:2 to 1:4

**Fluid renewal** 2 to 3 times per week

**Freeze medium** Gibco Cytion 10% FBS + 10% DMSO + Gibco Cytion 820100a

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the vial to touch the bottom of the water bath. Remove the vial from the water bath and transfer the cells to a pre-warmed tube.
2. Centrifuge the cells at 300 x g for 3 minutes at 4°C. Remove the supernatant and resuspend the cells in 150 µl of pre-warmed medium.
3. Seed the cells into a 24-well plate (15 µl per well) or a 96-well plate (8 µl per well) of a pre-warmed medium.
4. Incubate the cells at 37°C in 5% CO<sub>2</sub> for 24 hours. The cells should reach 70% confluency.
5. Harvest the cells by trypsinization and centrifugation at 300 x g for 3 minutes at 4°C. Resuspend the cells in 150 µl of pre-warmed medium.
6. Seed the cells into a 24-well plate (15 µl per well) or a 96-well plate (8 µl per well) of a pre-warmed medium.
7. Incubate the cells at 37°C in 5% CO<sub>2</sub> for 24 hours. The cells should reach 70% confluency.
8. Harvest the cells by trypsinization and centrifugation at 300 x g for 3 minutes at 4°C. Resuspend the cells in 150 µl of pre-warmed medium.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified air

**Flask Coating** None

**Freezing Procedure** Harvest cells by trypsinization and centrifugation at 300 x g for 3 minutes at 4°C. Resuspend the cells in 150 µl of freezing medium. Seed the cells into a 24-well plate (15 µl per well) or a 96-well plate (8 µl per well) of a pre-warmed medium. Incubate the cells at -78°C for 24 hours.

**Shipping Conditions** Store the cells at -78°C. Ship the cells in a dry ice container.

**Storage Conditions** Store the cells at -150°C for 196 weeks. The cells should be stored in a liquid nitrogen container.

Genotype / HLA

**Sterility** The cells are free of mycoplasma contamination. PCR screening for mycoplasma contamination is performed. The cells are free of mycoplasma contamination.

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**STR**

**CSF1PO:** 10,12  
**D13S317:** 8  
**D16S539:** 9  
**D5S818:** 11,12  
**D7S820:** 9  
**TH01:** 9,9.3  
**TPOX:** 8,11  
**vWA:** 14,17  
**D3S1358:** 15  
**D21S11:** 30,32.2  
**D18S51:** 15,17  
**Penta E:** 7,1  
**Penta D:** 12  
**D8S1179:** 13,15  
**FGA:** 22,24

**HLA**

**A\*:** '02:01:01, '03:01:01  
**B\*:** '44:02:01  
**C\*:** 05:01:01  
**DRB1\*:** 04:01:01, 14:54:01  
**DQA1\*:** '01:04:01, '03:03:01  
**DQB1\*:** 03:01:01, 05:03:01  
**DPB1\*:** '04:01:01, '682:01:00  
**E:** 01:01, 01:03