

RCC-KL | 300281

Cell Line

Description	RCC-KL is a cell line derived from a renal cell carcinoma (RCC), which is a type of cancer that originates in the kidney. It is a highly aggressive and metastatic cell line, making it a valuable model for studying the biology of RCC and for testing potential therapies. The cell line is characterized by its ability to grow in suspension and its high tumorigenicity in xenograft models. It is also known for its resistance to certain chemotherapeutic agents, which makes it a challenging model for drug discovery. The cell line is maintained in a serum-free medium, which is a common feature for many cancer cell lines used in research.
Organism	Human
Tissue	Kidney
Disease	Renal cell carcinoma
Synonyms	RCCKL

Characteristics

Age	51 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Adherent, slow growing

Cell Line Information

Citation	RCC-KL (Cytion 300281)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5881

Cell Line Source

Product sheet

IL8 RCC-KL | 300281

Protein expression	IL8
Mutational profile	IL8 RS1126647 3-UTR SNP A>T
Cell line	
Culture Medium	RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO ₃ (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are seeded into T25 flasks in 5 ml of medium. Cells are grown to confluence and then split into 3 flasks. Cells are grown to confluence and then split into 3 flasks.
Split ratio	1:2 or 1:3
Fluid renewal	1 or 2 times per week
Freeze medium	DMEM + 10% FBS + 10% DMSO (Cytion 820700a)

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the cells quickly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. **Centrifugation:** Centrifuge the cells at 300 x g for 5 minutes at 4°C. Remove the supernatant and resuspend the cells in pre-warmed medium.
3. **Seeding:** Seed the cells into a 37°C pre-warmed medium.
4. **Media Change:** Change the medium to fresh medium after 24 hours.
5. **Incubation:** Incubate the cells at 37°C in 5% CO₂ atmosphere.
6. **Passaging:** Pass the cells into a new flask when they reach 70-80% confluency.
7. **Freezing:** Freeze the cells in a freezing medium and store at -80°C.
8. **Thawing:** Thaw the cells quickly in a water bath at 37°C.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Yes

**Freezing
Procedure**

Freeze the cells in a freezing medium and store at -80°C.

**Shipping
Conditions**

Ship the cells in a cooling box with dry ice and store at -80°C.

**Storage
Conditions**

Store the cells in a freezing medium at -150 to 196 K.

Sterility

The cells are sterile and free of mycoplasma contamination. PCR screening confirmed the absence of mycoplasma.

☒☒☒☒ RCC-KL | 300281

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Amelogenin: x,x
CSF1PO: 12
D13S317: 13,14
D16S539: 10,12
D5S818: 11
D7S820: 10,11
TH01: 6,9
TPOX: 8,11
vWA: 18,19
D3S1358: 16
D21S11: 29,3
D18S51: 17,23
Penta E: 7,12
Penta D: 9,12
D8S1179: 12,13
FGA: 22,26

☒☒☒☒☒ HLA

A*: '02:01:01, '32:01:01
B*: '35:01:01, '49:01:01
C*: 04:01:01, 07:01:01
DRB1*: 13:02:01, 14:01:01
DQA1*: '01:02:01, '01:04:01
DQB1*: '05:03:01, '06:04:01
DPB1*: '02:01:02, '19:01:01
E: 01:01, 01:03