

## HROC173 growing culture | 330807

### General information

<b>Description</b>	This is one cell line of a series of tumor cell lines which have been established by PD Dr. Michael Linnebacher from Primary CRC resection specimens since 2006.
<b>Organism</b>	Human
<b>Tissue</b>	Colon ascendens, UICC IV
<b>Disease</b>	Primary adenocarcinoma, TNM stage T4N2M1R2L0V grading G3, Lk(n) +11, ? Lk(n) 29

### Characteristics

<b>Age</b>	45 years
<b>Gender</b>	Male
<b>Ethnicity</b>	Caucasian
<b>Morphology</b>	Epithelial-like
<b>Growth properties</b>	Adherent

### Identifiers / Biosafety / Citation

<b>Citation</b>	HROC173 (Cytion catalog number 300807)
<b>Biosafety level</b>	1
<b>Depositor</b>	M. Linnebacher

### Expression / Mutation

<b>Protein expression</b>	PTEN
<b>Tumorigenic</b>	Yes, in immune-suppressed nude mice
<b>Viruses</b>	Free of human pathogenic viruses SV40, JC/BK, HBV, HCV, HIV.

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**Ploidy status** Aneuploid

**Mutational profile** K-Raswt, B-RAFwt, N-Raswt, H-Raswt, PIK3CAmut

**Handling**

**Culture Medium** DMEM:Ham's F12, w: 3.1 g/L Glucose, w: 1.6 mM L-Glutamine, w: 15 mM HEPES, w: 1.0 mM Sodium pyruvate, w: 1.2 g/L NaHCO<sub>3</sub> (Cytion article number 820400a)

**Medium supplements** Supplement the medium with 10% FBS

**Passaging solution** Accutase

**Doubling time** 29 hours

**Subculturing** Remove medium and rinse the adherent cells using PBS without calcium and magnesium (3-5 ml PBS for T25, 5-10ml for T75 cell culture flasks). Add TrypLE Express (1-2ml per T25, 2.5ml per T75 cell culture flask), the cell sheet must be covered completely. Incubate at 37 degree Celsius for 10 to 15 minutes. Carefully resuspend the cells with medium (10 ml), centrifuge for 3 min at 300xg, resuspend cells in fresh medium and dispense into new flasks which contain fresh medium. This cell line will result in single cell suspension.

**Split ratio** A ratio of 1:4 to 1:8 is recommended

**Seeding density**  $2 \times 10^4$  cells/cm<sup>2</sup>

**Fluid renewal** Every 3 to 5 days

**Freezing recovery** Fast

**Freeze medium** CM-1 (Cytion catalog number 800100) or CM-ACF (Cytion catalog number 806100)

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### Handling of cryopreserved cultures

HROC173 cells are shipped in a deep-frozen state on dry ice. Upon receipt, confirm that the vial remains frozen. For storage, place the cryovial immediately at temperatures below -150 degrees. If you plan to culture the cells immediately, swiftly thaw the vial by shaking it in a 37 degrees water bath with clean water and an antimicrobial agent for 40-60 seconds. Remove the vial once a small ice clump persists, ensuring it remains cold. Proceed with all subsequent steps under aseptic conditions. In a sterile flow hood, disinfect the cryovial with 70% ethanol. Then, gently open the vial and transfer the cell suspension into a 15 ml centrifuge tube pre-filled with 8 ml of room temperature culture medium. Gently mix the cells. For cell separation, centrifuge at 300 x g for 3 minutes and dispose of the supernatant. Skipping centrifugation is optional, although any residual freezing medium should be removed after 24 hours. Resuspend the pellet gently in 10 ml of fresh culture medium and divide between two T25 culture flasks. Follow the subculture protocol for subsequent steps.

### Handling of proliferating cultures

One or two cell culture flasks come filled with cell culture medium. Collect the entire medium in a 50 ml centrifuge tube. Spin down the collected medium at 300 x g for 3 minutes to collect the cells which may have detached during transit. If a cell pellet is visible, resuspend the cells in 5 ml of cell culture medium and transfer to a T25 cell culture flask. Carefully add 5 ml of cell culture medium to each T25 cell culture flask. Examine cell morphology and confluency using a microscope. Finally, incubate the flasks at 37 degrees Celsius for at least 24 hours.

## Quality control / Genetic profile / HLA

### Sterility

Mycoplasma contamination is rigorously excluded using both PCR-based assays and luminescence-based mycoplasma detection methods. To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.

### STR profile

**Amelogenin:** x (Patient male, Y lost)  
**CSF1PO:** 11,12  
**D13S317:** 11,12  
**D16S539:** 12  
**D5S818:** 11,12  
**D7S820:** 10  
**TH01:** 7  
**TPOX:** 8,1  
**vWA:** del,19