

#### HROC278Met1 T2 M2 Cells | 300836

#### **General information**

**Description**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.

Organism Human

**Tissue** Peritoneal Metastasis, Established from a patient-derived xenograft of metastasis of primary CRC tissue (Colon

ascendens, TNM stage T4N2M1R0L1V1, grade G3, Lk(n) +19, ? Lk(n) 29)

**Disease** Adenocarcinoma

#### **Characteristics**

Age 76 years

**Gender** Female

**Ethnicity** Caucasian

Morphology Epithelial-like

**Growth** Adherent properties

### **Identifiers / Biosafety / Citation**

**Citation** HROC278Met1 T2 M2 (Cytion catalog number 300836)

Biosafety level 1

**Depositor** M. Linnebacher

#### **Expression / Mutation**

Protein PTEN expression

**Tumorigenic** Yes, in immune-suppressed nude mice

**Viruses** Free of human pathogenic viruses SV40, JC/BK, HBV, HCV, HIV.



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Mutational
profile

B-RAFV600E APCwt, p53wt, K-Raswt, N-Raswt, H-Raswt, PIK3CAwt

### **Handling**

Culture	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:
Medium	1.2 g/L NaHCO3 (Cytion article number 820400a)

## Medium supplements

Supplement the medium with 10% FBS

# Passaging solution

Accutase

#### Doubling time

29 hours

#### **Subculturing**

Remove the old medium from the adherent cells and wash them with PBS that lacks calcium and magnesium. For T25 flasks, use 3-5 ml of PBS, and for T75 flasks, use 5-10 ml. Then, cover the cells completely with Accutase, using 1-2 ml for T25 flasks and 2.5 ml for T75 flasks. Let the cells incubate at room temperature for 8-10 minutes to detach them. After incubation, gently mix the cells with 10 ml of medium to resuspend them, then centrifuge at 300xg for 3 minutes. Discard the supernatant, resuspend the cells in fresh medium, and transfer them into new flasks that already contain fresh medium.

#### **Split ratio**

A ratio of 1:3 to 1:6 is recommended

# Seeding density

2 x 10^4 cells/cm^2

#### Fluid renewal

Every 3 to 5 days

# Freezing recovery

Few days

#### Freeze medium

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



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#### Handling of cryopreserved cultures

- 1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
- 2. Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
- 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
- 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
- 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
- 6. Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium. Optionally, skip centrifugation but remove any remaining freezing medium after 24 hours.
- 7. Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
- 8. Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

### Quality control / Genetic profile / HLA

#### **Sterility**

Mycoplasma contamination is 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.



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**STR profile** Amelogenin: x,x

CSF1PO: 10 D13S317: 10 D16S539: 13 D5S818: 13 D7S820: 11,12 TH01: 7,9 TPOX: 11 vWA: 14,18