

HROC57 | 300825

General Information

Description	Cell line derived from a 43-year-old male patient with a primary tumor of the colon (PD Dr. Michael Linnebacher) [redacted]
Organism	Human
Tissue	Colon, UICC IV, [redacted]
Disease	Colorectal adenocarcinoma, TNM T3N2M1R2L1V1, G3, Lk(n) + 16, Σ Lk(n) 28.

Patient Information

Age	43 years
Gender	Male
Ethnicity	[redacted]
Morphology	[redacted]
Growth properties	[redacted]

Identification and Safety

Citation	HROC57 ([redacted] Cytion 300825)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1G03

Genetic and Molecular Data

Protein expression	PTEN
Tumorigenic	[redacted]

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Viruses HEK293T cells are stably transfected with SV40, JC/BK, HBV, HCV, HIV.

Ploidy status Diploid

MSI-status MSS

Mutational profile B-RAFV600E, K-Raswt, N-Raswt, H-Raswt, Pik3CAwt

Media

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM sodium pyruvate, w: 1.2 g/L NaHCO₃ 820400a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 35 hours

Subculturing Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded at a density of 2 x 10⁴ cells/cm² in 25 cm² flasks.

Seeding density 2 x 10⁴ cells/cm²

Fluid renewal 3-5 days

Post-Thaw Recovery 3-5 days

Freeze medium DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes. Resuspend in 150 µl of medium. Incubate at 37°C for 24 hours.
3. Seed cells into a 96-well plate (100 µl per well). Incubate at 37°C for 24 hours.
4. Harvest cells for analysis. Wash with PBS. Resuspend in 100 µl of PBS. Add 10% FCS.
5. Seed cells into a 96-well plate (100 µl per well). Incubate at 37°C for 24 hours.
6. Harvest cells for analysis. Wash with PBS. Resuspend in 100 µl of PBS. Add 10% FCS.
7. Seed cells into a 96-well plate (100 µl per well). Incubate at 37°C for 24 hours.
8. Harvest cells for analysis. Wash with PBS. Resuspend in 100 µl of PBS. Add 10% FCS.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium, 10% FCS

Freezing Procedure Harvest cells, wash with PBS, resuspend in 100 µl of PBS. Add 10% FCS. Incubate at 37°C for 24 hours.

Shipping Conditions Store at -78°C

Storage Conditions Store at -150°C for 196 days

HLA

Sterility Sterile, PCR negative