

Product sheet

HROC147 T0 M1 | 300856

General information

Description	Cell line derived from a 54-year-old male patient with colorectal adenocarcinoma (PD Dr. Michael Linnebacher) [redacted]
Organism	Human
Tissue	Colorectal adenocarcinoma, UICC IV, [redacted] CRC [redacted] (TNM T3N2M1R0L1V1, [redacted] G3, I [redacted])
Disease	Colorectal adenocarcinoma
Synonyms	HROC147

Patient information

Age	54 years
Gender	Male
Ethnicity	[redacted]
Morphology	[redacted]
Growth properties	[redacted]

Identification and safety

Citation	HROC147 T0 M1 ([redacted] Cytion 300856)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1G09

Protein expression

Protein expression	PTEN
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Tumorigenic	Yes, orthotopic xenografts in nude mice
Viruses	None detected. SV40, JC/BK, HBV, HCV, HIV.
MSI-status	MSI-L
Mutational profile	APCmut, p53wt, K-Rasmut, B-RAFwt, N-Raswt, H-Raswt, PIK3CAwt
Characteristics	
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 beta-mercaptoethanol, w: 1.2 g/L NaHCO3 820400a)
Supplements	None. 10% FBS
Dissociation Reagent	None
Doubling time	29 days
Subculturing	Cells are grown in 75 cm ² flasks. Media is replaced every 3-5 days. Cells are harvested by trypsinization and resuspended in PBS. T25 flasks are used for subculturing. Cells are seeded at a density of 2 x 10 ⁴ cells per flask.
Seeding density	2 x 10 ⁴ cells/flask
Fluid renewal	3-5 days
Post-Thaw Recovery	None
Freeze medium	None. Cells are frozen in FBS + 10% DMSO.

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed T25 flask containing 10 ml of complete DMEM medium.
2. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
3. Seed the cells into a 96-well plate (100 µl per well) for high-throughput screening.
4. For larger scale cultures, seed cells into T75 flasks (100 µl per well) for 24-48 hours.
5. Harvest cells for RNA extraction using RNeasy spin columns.
6. Harvest cells for protein extraction using RNeasy spin columns.
7. Harvest cells for Western blotting using RNeasy spin columns.
8. Harvest cells for flow cytometry using RNeasy spin columns.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells into a 15 ml centrifuge tube, centrifuge at 300 x g for 3 minutes. Resuspend the pellet in 1 ml of freezing medium and store at -80°C.

Shipping Conditions Store at -80°C in a dry ice container.

Storage Conditions Store at -150°C for up to 196 weeks.

HEK293T / HEK293T / HLA

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