HROC24 T1 M1

300813

GENERAL INFORMATION

Description

นี่ □ป็นหนึ่งในชุดของสายพันธุ์ □ซลล์ □นื้องอกที่ได้รับการจัดตั้งโดย PD Dr. Michael Linnebacher จาก PDTx (Patient-derived Tumor xenografts) ตั้งแต่ □ี 2006

Tissue	ลำไส้ใหญ่ , ก่อตั้งจาก PDx (□นื้องอกที่นำมาจากผู้ป่วย□) ของ □นื้อ □ยื่อ CRC หลัก (ลำไส้ใหญ่ส่วนต้น , UICC I, TNM stage T2N0M0R0L0V1 grading G2). Lk(n) + 0, Σ Lk(n) 13
Disease	□ยื่อบุผิว
Metastatic site	ไม่สามารถใช้ได้ (UICC stage I; TNM T2N0M0; ไม่มีการแพร่กระจายไป ยังบริ □วณใกล้ □คียงหรือระยะไกล)

Applications

การวิจัยมะ □ร็งลำไส้ใหญ่และทวารหนัก ; การสร้างแบบจำลอง □ MSI-H (microsatellite-instable) CRC; ชีววิทยาของ CRC ที่ขับ □คลื่อนโดย BRAF V600E; ชีววิทยาของ CRC ในระยะ □ริ่มต้น ; การทำนายการตอบสนองต่อการรักษาด้วยภูมิคุ้มกันบำบัด □ ; การวิจัย CRC ที่ได้มาจาก PDx; การศึกษาธนาคารชีวภาพที่จับคู่กับผู้ป่วย HROC

Synonyms

- HROC24x

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
GMO status	Non-GMO

GMO status details

No genetic modification; wildtype patient-derived MSI-H CRC cell line established from a patient-derived xenograft by PD Dr. Linnebacher

Biosafety level	1

CHARACTERISTICS

Morphology	□ซลล์ขนาด □ล็กในอาณานิคม
Cell type	□ซลล์ □ยื่อบุผิว
Tumourigenic	ใช่ ในหนูที่ไม่มีระบบภูมิคุ้มกัน
Ploidy status	ยูพลอยด์
MSI status	MSI-H
Doubling time	20 ชั่วโมง

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IDENTIFIERS

Citation

HROC24 T1 M1 ([illegible] Cytion 300813)

NCBI TaxID	9606
Cellosaurus	CVCL_1U80

EXPRESSION AND SUSCEPTIBILITY

Mutational profile

APCmut, p53wt, K-Raswt, N-Raswt, H-Ras wt, B-RAFV600E, PIK3CAwt

Viruses

[illegible] SV40, JC/BK, HBV, HCV, HIV

HANDLING AND CULTURE

Culture medium

DMEM:Ham's F12 (1:1), w: 3.1 [illegible]/[illegible] [illegible], w: 2.5 [illegible] L-[illegible], w: 15 [illegible] HEPES, w: 0.5 [illegible] [illegible], w: 1.2 [illegible]/[illegible] $NaHCO_3$ ([illegible] Cytion 820400a)

Incubation atmosphere	37°C, 5%CO_2, [illegible]

Supplements

[illegible] FBS 10%

Dissociation reagent	[illegible]

Subculturing

[illegible] PBS [illegible] [illegible] T25 [illegible] PBS 3-5 [illegible]. [illegible] T75 [illegible] 5-10 [illegible]. [illegible] Accutase [illegible] 1-2 [illegible]. [illegible] T25 [illegible] 2.5 [illegible]. [illegible] T75[illegible] 8-10 [illegible] 10 [illegible] 300 [illegible] (300xg) [illegible] 3 [illegible]

Split ratio	1 [illegible] 3
Seeding density	2 x 10^4 [illegible]/[illegible].^²
Fluid renewal	[illegible] 3 [illegible] 5 [illegible]
Post-thaw recovery	[illegible]

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
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.
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.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
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.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
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.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

[illegible] PCR [illegible]

[illegible]

Freeze medium	[illegible] ([illegible] FBS) + 10% DMSO [illegible] CM-1 ([illegible] Cytion 800100) [illegible]

Storage conditions

[illegible] −150 [illegible] −196 °C [illegible] −80 °C [illegible]

Shipping conditions

[illegible] −78 °C [illegible]

DONOR

Donor age	98 [illegible]
Ethnicity	[illegible]

LEGAL AND SAFETY

Safety precautions

[illegible]

Warranty

□□□Cytion □□
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Third-party agreements apply	Yes

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