HROBMC01

300800

GENERAL INFORMATION

Description

นี่ □ป็นหนึ่งในชุดของสายพันธุ์ □ซลล์มะ □ร็งลำไส้ให□ญ่และทวารหนักที่ได้ถูกจัดตั้งขึ้น โดย PD Dr. Michael Linnebacher ตั้งแต่ปี 2006 สายพันธุ์นี้ถูกจัดตั้งขึ้นจากมะ □ร็งที่แพร่กระจายไป ยังสมองซึ่งมีต้นกำ □ □นิดจากมะ □ร็งลำไส้ให□ญ่และทวารหนัก

Tissue	ลำ□ไส้ใหญ่และทวารหนัก
Disease	อะดีโนคาร์ซิโนมา
Metastatic site	สมอง

Applications

การวิจัยการแพร่กระจายของมะ □ร็งลำไส้ให□ญ่และทวารหนักไปยังสมอง ; ชีววิทยาการแพร่กระจาย จากมะ □ร็งลำไส้ให□ญ่และทวารหนักไปยังสมอง ; การสร้างแบบจำลองมะ □ □ร็งลำไส้ให□ญ่และทวาร หนักชนิด PTEN-□□; การทดสอบความไวต่อยา ; ชีววิทยามะ □ร็งลำไส้ให□ญ่และทวารหนักที่แพร่กระจาย □ฉพาะสมอง ; การศึกษาธนาคารชีวภาพที่จับคู่กับผู้ป่วย HROC; กลไกการแพร่กระจายไปยังระบบ ประสาทส่วนกลาง

CLASSIFICATION

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

GMO status details

No genetic modification; wildtype patient-derived CRC brain metastasis cell line established by PD Dr. Linnebacher

Biosafety level	1

CHARACTERISTICS

Morphology	ลักษณะคล้าย □ยื่อบุผิว
Cell type	□ยื่อบุผิว
MSI status	□อ็ม □อส □อส
Doubling time	30 ชั่วโมง

IDENTIFIERS

Citation

HROBMC01 (หมาย □ลขแคตตาล็อก Cytion 300800)

NCBI TaxID	9606
Cellosaurus	CVCL_1D08

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Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

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EXPRESSION AND SUSCEPTIBILITY

Protein expression

□□□□□□□□

Mutational profile

P53 □□□□□□□□□□□, APC □□□□□□□□□□□, K-RasG12VA, N-Raswt, H-Raswt, PIK3CAwt, B-Rafwt

HANDLING AND CULTURE

Culture medium

DMEM:Ham's F12 (1:1), w: 3.1 □□□□/□□□□ □□□□□□□, w: 2.5 □□□□□□□□□□□□ L-□□□□□□□□□, w: 15 □□□□□□□□□□□□ HEPES, w: 0.5 □□□□□□□□□□□□ □□□□□□□□□□□□□□□□, w: 1.2 □□□□/□□□□ NaHCO3 (□□□□□□□□□□□□□□□ Cytion 820400a)

Incubation atmosphere	37°C, 5%CO2, □□□□□□□□□□□□□

Supplements

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Dissociation reagent	□□□□□□□□□

Subculturing

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

Split ratio	1 □□□ 3
Seeding density	1 x 10^4 □□□□□□/□□.^²
Fluid renewal	□□□ 3 □□□ 5 □□□
Post-thaw recovery	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□ 5 x 10^4 □□□□□□/□□. □□□ □□□□□□□□□□ 48 □□□□□□□□□

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.

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QUALITY CONTROL AND CRYOPRESERVATION

Sterility

□□ PCR □□
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Freeze medium	□□□ □□ (□□□□□□□ FBS) + 10% DMSO □□ □□□□ CM-1 (□□□□□□□□ □□□□□□□□□□ Cytion 800100) □□

Storage conditions

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Shipping conditions

□□ □□ −78 °C □□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□ □□

DONOR

Donor age	60 □□
Ethnicity	□□□□□□□□□□

LEGAL AND SAFETY

Safety precautions

□□□

Warranty

□□□Cytion □□
□□
60 □□□
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<a href=""/Who-we-are/Warranty/"" hreflang=""x-default"">□□□□□□□□□□□□□□□□□□□□□□□.

Third-party agreements apply	Yes

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