HROC18

300808

GENERAL INFORMATION

Description

□是迈克尔-林内巴赫博士（PD Michael Linnebacher）自 2006 年以来建立的一系列肿瘤细胞系中的一个细胞系。 HROC18 来自原发性透明细胞腺癌。□些细胞呈球状，边界不清，细胞核与细胞质的比例较高，并有微绒毛和脱绒毛体。它们可以在软琼脂中培养。

Tissue	结肠（盲肠），UICC I
Disease	原发性腺癌，TNM 分期 T2N0M0 R0L0V0，分级 G2，Lk(n) + 0，∑ Lk(n) 28
Metastatic site	不适用（UICC I期；TNM分期T2N0M0；无区域性或远处转移）

Applications

结直肠癌研究；早期结直肠癌生物学； APC/p53突变型结直肠癌模型构建；药物敏感性及靶向治疗评估；结直肠癌免疫学；患者匹配的高风险结直肠癌（ HROC）生物样本库研究

Synonyms

- HROC 18

CLASSIFICATION

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

GMO status details

No genetic modification; wildtype patient-derived CRC cell line established by PD Dr. Linnebacher. Confirmed free of HBV, HCV, HIV.

Biosafety level	1

CHARACTERISTICS

Morphology	上皮样
Cell type	上皮细胞
Tumourigenic	是，在免疫抑制裸鼠中
Ploidy status	非整倍体
MSI status	MSS
Doubling time	30 小时

IDENTIFIERS

Citation

HROC18（Cytion 目录号 300808）

NCBI TaxID	9606

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Banking information
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Cellosaurus	CVCL_0B45

EXPRESSION AND SUSCEPTIBILITY

Protein expression

β-□□□□□□□□□□□□PTEN

Antigen expression

CD15+, CD24+, CD44+, CD55+, CD58+, CD50+, CD 54+, CD66acde+, CD71+, CD102+, CD326+ , CD80- , CD86-, EpCAM+, HLA-A2+, EGFR+

Mutational profile

APC □□□p53 □□□K-Raswt□N-Raswt□H-Raswt□B-RAFwt□PIK3CA □□

Viruses

□□□□□□□□ HBV□HCV □ HIV□

HANDLING AND CULTURE

Culture medium

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

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

Supplements

□□□□□□□ 10% FBS

Dissociation reagent	Accutase

Subculturing

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

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

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

使用基于 PCR 的检测方法和基于发光的支原体检测方法排除支原体污染。
为确保没有细菌、真菌或酵母菌污染，每天都要对细胞培养物进行目视检查。

Freeze medium	我们使用完全生长培养基（包括 FBS）+10% DMSO 或 CM-1（Cytion 商品目录编号 800100）作为冷冻保存培养基，以获得足够的解冻后存活率，CM-1（Cytion 商品目录编号 800100）含有优化的渗透保护剂和代谢稳定剂，可提高恢复能力并减少冷冻引起的应激。

Storage conditions

如需长期保存，可将样品瓶放入气相液氮中，温度约为 -150 至 -196 °C。在-80 °C下保存只能作为转入液氮前的短暂过渡。

Shipping conditions

冷冻保存的细胞系用干冰装运，并用经过验证的隔热包装和足够的制冷剂在整个运输过程中保持约 -78 °C 的温度。收到货后，应立即检查容器，并立即将小瓶转移到适当的储藏室。

DONOR

Donor age	65 岁
Ethnicity	高加索人

LEGAL AND SAFETY

Safety precautions

计划将低温样品储存在液氮中以便将来解冻时，必须遵守严格的安全措施。在将冷冻样本移入或移出液氮罐时，必须穿戴适当的防护手套和防护服，并使用面罩或安全护目镜。 □样做是为了降低在移出时因冷冻样品爆炸而造成伤害的风险，因为爆炸可能导致锋利的碎片飞溅。

Warranty

在Cytion，我们保证产品的质量和活力。
我们保证，从我们的工厂发货后 60 天内，我们的细胞在开始培养时都是存活的。
我们保证所有材料均符合分析证书和/或产品说明书中描述的规格。
有关详细信息，请参阅我们的 <a href="" /Who-we-are/Warranty/"" hreflang=""x-default"">保修声明。

Third-party agreements apply	Yes

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