UM-HMC-3B

305715

GENERAL INFORMATION

Description

UM-HMC-3B □一种人黏液表皮样癌细胞系，源自一名 73 岁白人女性患者硬腭唾液腺的原发性黏液表皮样癌。 该细胞系属于密歇根大学人类黏液表皮样癌（UM-HMC）细胞库的一部分。 与 UM-HMC-1 一样，UM-HMC-3B 携带 CRTC1-MAML2 基因融合（MECT1-MAML2），这□大多数黏液表皮样癌的致癌驱动基因，由 t(11;19)(q21;p13) 易位所致，并驱动 CREB 和 Notch 通路的激活。
UM-HMC-3B 适用于硬腭和唾液腺黏液表皮样癌生物学研究、 CRTC1-MAML2 信号传导研究，以及与其他 UM-HMC 面板细胞系的比较分析。 结合 UM-HMC-1 和该系列的其他成员，UM-HMC-3B 有助于识别不同解剖部位、年龄和性别的黏表皮样癌中共同和不同的分子特征。它还适用于针对融合致癌蛋白及其下游 CREB/Notch 效应因子的药物敏感性检测。

Tissue	硬腭、唾液腺
Disease	硬腭黏表皮样癌
Metastatic site	原发肿瘤部位（硬腭）

Applications

唾液腺癌研究；CRTC1-MAML2融合基因生物学；硬腭黏膜上皮癌生物学； CREB/Notch信号通路；密歇根大学与霍奇金-马丁癌症中心（UM-HMC）联合研究；药物敏感性检测

Synonyms

- University of Michigan-Human Mucoepidermoid Carcinoma-3B

CLASSIFICATION

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

GMO status details

No genetic modification; somatic CRTC1-MAML2 fusion acquired during tumor development

Biosafety level	1

CHARACTERISTICS

Morphology	上皮样
Cell type	上皮细胞
Doubling time	约24至48小时

IDENTIFIERS

Citation

UM-HMC-3B（Cytion 产品编号 305715）

NCBI TaxID	9606
Cellosaurus	CVCL_Y472

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

EXPRESSION AND SUSCEPTIBILITY

Mutational profile

□□□□□□□□CRTC1 + HGNC□MAML2□□□=CRTC1-MAML2□MECT1-MAML2□

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

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Split ratio	1 □ 5
Seeding density	2-4×10⁴/cm²
Fluid renewal	□ 2 □ 3 □

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

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

Storage conditions

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Shipping conditions

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DONOR

Donor age	73 年
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。这样做 □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。

Disclaimer

我们提供的细胞仅用于体外实验室研究目的，不用于临床或诊断用途，也不得用于人类或兽医目的。用户必须遵守在研究环境中处理和使用这些细胞的所有适用准则和法规。

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 □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。

Material Transfer Agreement required	Yes

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