HPAF-II

305088

GENERAL INFORMATION

Description

HPAF-II □一种人胰腺腺癌细胞系，来源于一名成年患者。这种细胞系常用于癌症研究，因为它与胰腺癌这种侵袭性极强的致命恶性肿瘤的研究密切相关。 HPAF-II 细胞呈现上皮形态，异种移植到免疫功能低下的小鼠体内能形成肿瘤，因此 □研究肿瘤生长、转移和对治疗干预反应的重要体内模型。研究人员经常利用 HPAF-II 细胞研究胰腺癌进展的分子机制，包括遗传和表观遗传学改变、信号转导途径以及与肿瘤微环境的相互作用。

HPAF-II 细胞具有胰腺腺癌中经常出现的特定基因突变和改变。其中包括在细胞信号传导和增殖中起关键作用的 KRAS 基因突变，以及 TP53 和 CDKN2A 等肿瘤抑制基因的改变。该细胞系还能产生大量粘蛋白，而这正 □胰腺肿瘤具有侵袭性的原因之一。利用 HPAF-II 细胞进行的研究为了解胰腺癌的生物学特性提供了重要依据，并促进了针对胰腺癌关键分子通路的潜在治疗策略的开发。

Tissue	胰腺
Disease	胰腺导管腺癌
Metastatic site	腹水

Synonyms

- HPAF II
- HPAFII
- HPAF-2
- HPAF2
- HPAF/CD18
- CD18/HPAF
- HPAF-II/CD18
- CD-18
- CD18
- CD 18

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮细胞
Doubling time	26 小时

IDENTIFIERS

Citation

HPAF-II（Cytion 产品编号 305088）

NCBI TaxID	9606

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Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
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Cellosaurus	CVCL_0313

HANDLING AND CULTURE

Culture medium

EMEM□MEM Eagle□□w□2 mM L-□□□□□w□2.2 g/L NaHCO3□w□EBSS□Cytion □□□□ 820100a□□

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

Supplements

□□□□□□□ 10% FBS □ 1% NEAA

Dissociation reagent	Accutase

Subculturing

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

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

□□□ -78 °C □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

DONOR

Donor age	44 □
Ethnicity	□□

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。

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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