SNU-368

305631

GENERAL INFORMATION

Description

SNU-368□胞系是一种人肝□胞癌（HCC）模型，源自一名54岁男性患者的原发性肿瘤。该□胞系属于由韩国患者建立的八种HCC□胞系组合的一部分，旨在反映肝癌多样化的分子和表型特征。 SNU-368□胞呈现多边形贴壁形态，并保留原发肿瘤的多种组织学特征，包括梁状和腺泡状排列结构，这些特征符合 Edmondson分级II至IV级的分化程度。

遗传学上，SNU-368□胞携带整合型乙型肝炎病毒（HBV）DNA，并表达HBV转录本（包括HBx和preS/S）。这些特征使其成为研究HBV相关肝癌发生的重要模型。 SNU-368□胞同时表达转铁蛋白和胰岛素样生长因子 II（IGF-II），但无论在RNA或蛋白质水平均不产生甲胎蛋白（AFP）。此类分子特征对于探索与病毒感染、生长因子信号传导及代谢改变相关的肝癌通路具有重要意义。

SNU-368□胞系已被应用于药物基因组学研究，尤其在肝癌模型库（ LIMORE）中用于探究药物反应并识别靶向治疗的潜在生物标志物。该 □胞系参与大规模基因组与转录组分析，彰显其在模拟原发性肝癌异质性方面的价值，使其成为研究肝癌分子机制及评估新型治疗药物的重要工具。

Tissue	肝脏
Disease	肝□胞癌

Synonyms

- SNU368

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	2

CHARACTERISTICS

Morphology	多边形
Cell type	内皮

Karyotype

已失去Y染色体。

Doubling time	41小时

IDENTIFIERS

Citation

SNU-368（赛通产品编号 305631）

NCBI TaxID	9606
Cellosaurus	CVCL_3948

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EXPRESSION AND SUSCEPTIBILITY

Mutational profile

□□□ARID1A□□□□□□□p.Leu1607Profs*41 (c.4817dupT)□□□□□□□□□AXIN1□□□□□□□p.Gln184Ter (c.550C>T)□□□□□ □□□TERT□□□□□□□ c.1-124C>T (c.228C>T) (C228T)□□□□□□□□□TP53□□□□□□□p.Ser106Arg (c.318C>G)□□□□

Viruses

□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□w□2.0 mM □□□□□□□□w□2.0 g/L NaHCO3□Cytion □□□□ 820700a□□

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

Supplements

□□□□□□□ 10% □□□ FBS

Dissociation reagent	Accutase

Subculturing

□□□□□□□□□□ 0.25 % □□□□ 0.02 % EDTA □□□□□□□□ 37""C □□□ 3 □ 5 □□□□□□□□□□□□□□□□□□□□□ 15 □□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□

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

□□□□ PCR □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□

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

Storage conditions

□□□□□□□□□□□□□□□□□□□□□□□□□□□ -150 □ -196 ℃□□-80 °C□□□□□□□□□□□□□□□□□□□

Shipping conditions

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

DONOR

Donor age	54 年
Ethnicity	韩语

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□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□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