SNU-216

305630

GENERAL INFORMATION

Description

SNU-216 □胞系是一种人类胃癌模型，来源于一名中度分化腺癌患者的转移淋巴结。该 □胞系是为研究胃癌生物学，特别是肿瘤抗原表达、基因突变和治疗反应而建立的胃癌模型小组的一部分。SNU-216 □胞在培养过程中呈现粘附生长模式，形成异质弥漫单层， □胞形态为圆椭圆形，□胞核与□胞质的比例较低。

基因分析表明，SNU-216 □胞系存在重大突变，包括 TP53 基因的改变。具体来说，第 6 号外显子发生了突变，这很可能会影响其抑癌基因的功能。此外，肿瘤抗原研究表明， SNU-216 表达高水平的癌胚抗原（CEA）和组织多肽抗原（TPA），但检测不到甲胎蛋白（AFP）。这些特点使该□胞系成为研究胃癌分子和遗传特征以及探索与肿瘤标志物相关的诊断和治疗应用的重要工具。

SNU-216 还被收录到《癌症□胞系百科全书》（CCLE）中，提供了大量基因组、转录组和药理学数据。该 □胞系的分子特征已被用于预测对靶向疗法的敏感性，以及研究涉及受体酪氨酸激酶和 PI3K 信号转导的通路。将其纳入本资源强调了它作为胃癌研究和药物开发的临床前模型的重要性。

Tissue	胃
Disease	管状腺癌

Applications

淋巴结

Synonyms

- SNU216
- NCI-SNU-216

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮样
Cell type	上皮□胞
Doubling time	36 小时

IDENTIFIERS

Citation

SNU-216（Cytion 目录号 305630）

NCBI TaxID	9606
Cellosaurus	CVCL_3946

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Banking information
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EXPRESSION AND SUSCEPTIBILITY

Mutational profile

□□□TP53□□□□p.Val216Met (c.646G>A)□□□□

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

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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	46 □
Ethnicity	□□

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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

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