NCI-H522

305279

GENERAL INFORMATION

Description

NCI-H522 □胞系来源于一名成年患者的人类非小□胞肺癌（NSCLC），特别是腺癌。这种□胞系被广泛用于肺癌研究，为研究腺癌（NSCLC 最常见的亚型）的分子和□胞机制提供了模型。NCI-H522 □胞对于研究与肺腺癌相关的基因突变、信号转导途径和治疗反应非常有价值。

NCI-H522 □胞呈现上皮形态，并表达肺腺癌的特征标记，包括 □胞角蛋白和癌胚抗原（CEA）。它们携带在 NSCLC 中经常出现的基因改变，如 TP53 基因突变和 RB1 基因缺失。研究人员利用 NCI-H522 □胞探索肺癌进展过程中的关键信号通路，如表皮生长因子受体、 KRAS 和 PI3K/Akt 通路。这些□胞还被用于化疗药物、靶向疗法和免疫疗法的高通量药物筛选试验和临床前测试。此外， NCI-H522 □胞还被用于研究耐药性机制和开发克服耐药性的策略。 NCI-H522□胞系在肺腺癌研究中的相关性凸显了它在促进我们对肺癌生物学的了解以及为NSCLC患者开发新的更有效的治疗方法方面的重要性。

Tissue	肺部
Disease	腺癌

Synonyms

- NCI.H522
- H522
- H-522
- NCI-522
- NCI522
- NCIH522

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	上皮□胞

IDENTIFIERS

Citation

NCI-H522（Cytion 目录号 305279）

NCBI TaxID	9606
Cellosaurus	CVCL_1567

EXPRESSION AND SUSCEPTIBILITY

Mutational profile

突变：TP53，p.Pro191fs*56 (c.571delC)，同型

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

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

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□4.5 □/□□□□□10 □□□ HEPES□1 □□□□□□□□1.5 □/□ NaHCO3

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	58 □
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

PRODUCT DETAILS

Composition table