NCI-H82

300442

GENERAL INFORMATION

Description

NCI-H82 □胞系是 A.F. Gazdar 及其同事于 1978 年从一名肺小□胞癌患者的胸腔积液中提取的。原始肿瘤的形态不具有小 □胞肺癌的特征。该□胞系是 SCLC 的生化和形态变异型，表达神经元特异性烯醇化酶和肌酸激酶的脑同工酶。它检测不到 L-DOPA 脱羧酶或蚕豆蛋白。□胞会产生异常大小的 p53 mRNA（3.7 kb）。与正常□胞相比，C-myc DNA 序列扩增了约 25 倍，c-myc RNA 增加了 24 倍。据报道，这些□胞表达功能性 ANP 受体，但用 ANP 处理不会改变它们的生长模式。□胞的神经丝杠和波形蛋白染色呈阳性。□胞表达 v-fes ′ v-fms ′ Ha-ras ′ Ki-ras ′ N-ras 和 c-raf 1 mRNA °

Tissue	肺部
Disease	肺小□胞癌
Metastatic site	胸腔积液

Synonyms

- NCI-H-82
- H82
- H-82
- NCI H82
- NCIH82
- H82sclc

CLASSIFICATION

Organism	Human
Sex	Male
Growth properties	Suspension
Biosafety level	1

CHARACTERISTICS

Morphology	上皮样
Tumourigenic	是，在裸鼠体内形成具有非典型 SCLC 组织学的可移植肿瘤

Karyotype

这是一种接近三倍体的人类□胞系。染色体的模数为 58，出现率为 44%，多倍体率为 3%。每个□胞都有两个正常 X 染色体的拷贝。在 Q 带制备物中未检测到 Y 染色体。

IDENTIFIERS

Citation

NCI-H82（Cytion 目录号 300442）

NCBI TaxID	9606
Cellosaurus	CVCL_1591

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

EXPRESSION AND SUSCEPTIBILITY

Receptors expressed

□□□□□□□□ II □□□IGF II□□□□□□□□□ANP□

Protein expression

P53 □□

Isoenzymes

G6PD□B□PGM1□1-2□PGM3□1-2□ES-D□1□Me-2□1□AK-1□1□GLO-1□1□□□□□□□ = 0.0082

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

Subculturing

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□5×10⁵□□□/□□□□□□□□□□□□3×10⁵□1×10⁶□□□/□□□□□□□□□□□□□□□□

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	41 □

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

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