

HCC4006 | 305785

Description

HCC4006 is a cell line derived from a primary lung adenocarcinoma (NSCLC) with a KRAS G12S mutation and a 19q deletion (epigenetic). It is characterized by high EGFR expression and is linked to epithelial-mesenchymal transition (EMT) and activation of alternative signaling pathways, such as AXL kinase overexpression.

Organism

Human

Tissue

Lung

Disease

Non-small cell lung cancer

Metastatic site

Brain, Liver

Synonyms

HCC-4006, H4006, H4006-4006

Age

> 50 years

Gender

Male

Ethnicity

White

Morphology

Epithelial

Cell type

Epithelial, Adherent

Growth properties

High

Citation

HCC4006 (ATCC CRL-2180) | HCC4006 (ATCC CRL-2180) 305785

Biosafety level

1

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NCBI_TaxID 9606

CellosaurusAccession CVCL_1269

Mutational profile

EGFR, Simple, p.Leu747_Glu749del (c.2239_2247delTAAGAGAGAA) (ATCC=CRL-2871, TP53, Simple, (c.613T>C) (DepMap=ACH-000066).

Culture Medium

RPMI 1640 2.0 2.0 2.0 NaHCO3 (820700a)

Supplements

10% FBS

Dissociation Reagent

Doubling time

46

Fluid renewal

2 3

Freeze medium

(10% FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes. Resuspend in 100 µl of medium.
3. Seed into a 24-well plate (37°C, 5% CO₂). Allow cells to attach for 24 hours.
4. After 24 hours, remove the medium and replace with fresh medium. Seed density: 70% confluency.
5. After 48 hours, harvest cells. Seed density: 15% confluency. Harvest efficiency: 8%.
6. Seed into a 24-well plate (300 x 3). Allow cells to attach for 24 hours.
7. Harvest cells after 10 days. Harvest efficiency: 10%.
8. Harvest cells after 10 days. Harvest efficiency: 10%.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

None

Freezing Procedure

Resuspend cells in freezing medium. Store at -80°C.

Shipping Conditions

Store at -80°C during shipping.

Storage Conditions

Store at -150°C to -196°C.

/ / HLA

Sterility

Cells are provided in a sterile, cryoprotected medium. PCR screening is available. Sterility testing: positive.