

HCC44 | 305456

General information

Description	HCC44 is a human non-small cell lung carcinoma (NSCLC) cell line derived from a 54-year-old male patient. It is characterized by a mutation in the KRAS gene, which is a common driver mutation in NSCLC. The cell line is established from a primary tumor and has been extensively characterized for its growth properties and response to various treatments. HCC44 is a highly proliferative cell line that grows as a monolayer in the presence of serum. It is commonly used in research to study the biology of NSCLC and to test the efficacy of various drugs and treatments.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung carcinoma
Synonyms	HCC-44, HCC0044, HCC44, HCC44, HCC44

Cell characteristics

Age	54 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Highly proliferative

Cell line identification

Citation	HCC44 (HCC44) Cytion 305456
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2060

Cell line availability

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Mutational profile KRAS, p.Gly12Cys (c.34G>T), TERT, c.1-124C>A (c.228C>A); TP53, p.Ser94Ter (c.281C>G), p.Arg175Leu (c.524G>T),

Culture Medium RPMI 1640, w: 2.0 mM , w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent

Subculturing 1. Cells are harvested by trypsinization and centrifuged at 300 x g for 5 min. 2. Cells are resuspended in PBS and counted. 3. Cells are seeded into a 25 cm² flask at a density of 1 x 10⁵ cells per flask.

Seeding density 1 x 10⁵ cells per flask

Fluid renewal 2 x 3 days

Freeze medium FBS + 10% DMSO

Thawing and Culturing Cells

1. Cells are thawed in a 37°C water bath and immediately transferred to a 15 mL centrifuge tube.
2. Cells are centrifuged at 300 x g for 5 min and the supernatant is removed.
3. Cells are resuspended in PBS and counted.
4. Cells are seeded into a 25 cm² flask at a density of 1 x 10⁵ cells per flask.
5. Cells are cultured in RPMI 1640 + 10% FBS.
6. Cells are harvested by trypsinization and centrifuged at 300 x g for 5 min.
7. Cells are resuspended in PBS and counted.
8. Cells are seeded into a 25 cm² flask at a density of 1 x 10⁵ cells per flask.

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**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

**Shipping
Conditions**

Shipped in dry ice, stored at -78°C

**Storage
Conditions**

Store at -150 to -196 °C in liquid nitrogen

Cell line: HCC44

Sterility

Cell line is PCR confirmed and mycoplasma free.
Cells are tested for mycoplasma contamination.