

NCI-H2444 | 305904

General information

Description	NCI-H2444 is a cell line derived from a human non-small cell lung carcinoma (NSCLC) cell line. It is a highly aggressive, rapidly growing cell line that is highly resistant to many chemotherapeutic agents. The cell line is derived from a primary tumor of a 65-year-old male patient. The cell line is characterized by its high growth rate, with a doubling time of approximately 1,000 hours. It is highly resistant to many chemotherapeutic agents, including cisplatin, paclitaxel, and etoposide. The cell line is also highly resistant to radiation. The cell line is highly tumorigenic in nude mice. The cell line is highly sensitive to the anti-HER2/neu antibody trastuzumab. The cell line is highly sensitive to the anti-EGFR antibody gefitinib. The cell line is highly sensitive to the anti-VEGF antibody bevacizumab. The cell line is highly sensitive to the anti-angiogenic agent endostatin. The cell line is highly sensitive to the anti-metastatic agent metformin. The cell line is highly sensitive to the anti-invasive agent curcumin. The cell line is highly sensitive to the anti-proliferative agent doxorubicin. The cell line is highly sensitive to the anti-apoptotic agent bcl-2. The cell line is highly sensitive to the anti-apoptotic agent bcl-2. The cell line is highly sensitive to the anti-apoptotic agent bcl-2.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung carcinoma
Synonyms	H2444, H-2444, NCIH244

Cell characteristics

Age	Approx. 10-15 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Highly aggressive, rapidly growing

Cell line identification

Citation	NCI-H2444 (Cytion 305904)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1552

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NCI-H2444 - NCI-H2444

Mutational profile p.Gly12Val, p.Val129Leu, p.Tyr236Cys, p.Val129Leu

NCI-H2444

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

Supplements 10% FBS

Dissociation Reagent Trypsin

Freeze medium RPMI 1640, w: 2.0 mM Glutamine, w: 2.0 g/L NaHCO₃ (Cytion 820700a) + 10% DMSO + 10% FBS

Thawing and Culturing Cells

1. Thaw cells rapidly in a 37°C water bath. Transfer cells to a sterile tube and centrifuge at 300 x g for 5 min. Remove supernatant and resuspend cells in 1 mL of culture medium.
2. Seed cells into a 25 cm² flask containing 10 mL of culture medium. Incubate at 37°C in 5% CO₂.
3. When cells reach 70-80% confluency, passage them into a new flask.
4. For passage, trypsinize cells and resuspend in 1 mL of medium. Count cells and seed into a new flask at a density of 1 x 10⁵ cells/mL.
5. For long-term storage, resuspend cells in 1 mL of freeze medium and store at -80°C.
6. For thawing, transfer cells to a 37°C water bath and allow to thaw. Centrifuge at 300 x g for 5 min and resuspend in 1 mL of culture medium.
7. Seed cells into a 25 cm² flask containing 10 mL of culture medium. Incubate at 37°C in 5% CO₂.
8. When cells reach 70-80% confluency, passage them into a new flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

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Shipping
Conditions

Shipping conditions: The product is shipped in a dry ice container and must be stored at -78°C.

Storage
Conditions

Storage conditions: The product is stored at -150 to -196°C in a dry ice container.

NCI-H2444 (ATCC CCL-244)

Sterility

The product is sterile and free of mycoplasmas. PCR screening is recommended. The product is not tested for mycoplasmas.