

NCI-H211 | 305837

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Description

NCI-H211 is a cell line derived from a human non-small cell lung carcinoma (NSCLC). It is a highly tumorigenic cell line that grows in the presence of CO₂.

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Organism

Human

Tissue

Lung

Disease

Non-small cell lung carcinoma

Synonyms

H211, H-211, NCIH211

NCI-H211

Age

50 years

Gender

Male

Ethnicity

White

Growth properties

Adherent

NCI-H211

Citation

NCI-H211 (NCI-H211) Cytion 305837

Biosafety level

1

NCBI_TaxID

9606

CellosaurusAccession

CVCL_1529

NCI-H211

Product sheet

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Mutational profile TP53, p.Arg248Gln (c.743G>A), (PubMed=1312696, PubMed=1565469)

Karyotype Iso(3p), t(3;4)(pter-q12), t(3;11)(qter-p25)

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

Supplements 10% FBS

Dissociation Reagent

Seeding density 0.1 x 10⁶ /mL

Fluid renewal 2-3 times

Freeze medium + 10% DMSO (FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer cells to a sterile tube and centrifuge at 300 x g for 5 minutes. Remove supernatant and resuspend cells in 1 mL of complete medium.
2. Seed cells into a 25 cm² flask containing 10 mL of complete medium. Incubate at 37°C in 5% CO₂.
3. Monitor cell growth daily. Once cells reach 70-80% confluency, passage them.
4. Detach cells using trypsin-EDTA. Centrifuge at 300 x g for 5 minutes. Resuspend in 1 mL of complete medium.
5. Seed cells into a new 25 cm² flask. Incubate at 37°C in 5% CO₂.
6. Perform a secondary passage when cells reach 70-80% confluency.
7. Maintain cells in complete medium.
8. For long-term storage, freeze cells in freezing medium and store in liquid nitrogen.

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Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating none

Shipping Conditions Cryogenic storage, liquid nitrogen vapor phase, -78°C

Storage Conditions Cryogenic storage, liquid nitrogen vapor phase, -150 to -196 °C

NCI-H211 is a human cell line.

Sterility

NCI-H211 is a mycoplasma-free cell line. PCR screening for mycoplasma contamination is recommended. The cell line is not certified for the presence of mycoplasmas. The cell line is not certified for the presence of mycoplasmas.