

NCH421K | 300118

General information

Description	NCH421K is a human non-small cell lung carcinoma cell line, established from a 66-year-old male patient with adenocarcinoma. The cell line is characterized by its ability to grow in the presence of bFGF, which is a growth factor that is not typically required for the growth of most cell lines. NCH421K cells are highly tumorigenic and have been used in various studies to investigate the mechanisms of lung cancer progression and the effects of various treatments. The cell line is maintained in DMEM/F12 medium supplemented with 10% FBS and 10 ng/ml bFGF.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung carcinoma
Synonyms	NCH421k

Cell characteristics

Age	66 years
Gender	Male
Ethnicity	Chinese
Growth properties	Adherent, epithelial

Cell line identification

Citation	NCH421K (human non-small cell lung carcinoma) Cytion 300118
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_x910

Cell line authentication

Tumorigenic	Yes
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Characteristics

Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose , w: 2.5 mM L- Asparagine , w: 15 mM HEPES, w: 0.5 mM Insulin Transferrin , w: 1.2 g/L NaHCO3 820400a)
Supplements	Insulin Transferrin 10% FBS, 5 µg / ml Insulin , 20 µg / ml bFGF, 20 µg / ml EGF, 5 µg / ml Transferrin , 100 µg / ml Insulin , 5.2 µg / ml Hydrocortison
Doubling time	35 to 40 days
Subculturing	Cells are usually passaged by trypsinization , the cells are then resuspended in fresh medium and seeded into Eppendorf tubes or flasks at 1000 cells per well
Seeding density	1 to 2 x 10 ⁵ cells per well
Fluid renewal	2 to 3 times per week
Post-Thaw Recovery	Cells are usually recovered within 24 to 48 hours after thawing and recovery is usually complete
Freeze medium	Cells are usually seeded in DMEM , the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO , the CM-1 (the medium is Cytion 800100), the medium

Thawing and Culturing Cells	Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium Cells are usually seeded in DMEM, the medium is replaced by 50% DMEM + 40% FBS + 10% DMSO, the CM-1 (the medium is Cytion 800100), the medium
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