

NCI-H322 | 305839

General information

Description	NCI-H322 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is characterized by the presence of KRAS, MAPK/ERK, and PI3K/AKT signaling pathway mutations. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin/streptomycin. It is a highly proliferative cell line with a doubling time of approximately 48 hours. The cell line is derived from a patient with a primary tumor in the lung and a metastatic lesion in the brain. The cell line is characterized by the presence of KRAS, MAPK/ERK, and PI3K/AKT signaling pathway mutations. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin/streptomycin. It is a highly proliferative cell line with a doubling time of approximately 48 hours. The cell line is derived from a patient with a primary tumor in the lung and a metastatic lesion in the brain.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer (NSCLC)
Synonyms	H322, H-322, H322T, NCI-H322T, NCIH322T, NCI-322, NCIH322

Cell characteristics

Age	52 years
Gender	Male
Ethnicity	White
Cell type	Epithelial
Growth properties	Adherent

Cell line identification

Citation	NCI-H322 (Cytion 305839)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1556

Mutational profile TP53, p.Arg248Leu (c.743G>T), (PubMed=1311061, PubMed=1565469, PubMed=10536175, PubMed=20557307).

Culture Medium	RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO_3 (100% β -mercaptoethanol Cytion 820700a)
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Dissociation Reagent XXXXXXXXXX

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Flask Coating

Flask Coating

Freezing
Procedure

Freezing Procedure: The cells are frozen in a freezing medium and stored at -78°C.

Shipping
Conditions

Shipping Conditions: The cells are shipped in a cooling medium and stored at -78°C.

Storage
Conditions

Storage Conditions: The cells are stored in a storage medium at -150 to -196°C.

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Sterility

Sterility: The cells are sterile and free of mycoplasmas. PCR analysis confirmed the absence of mycoplasmas. The cells are also free of endotoxins.