HCC1359

305783

GENERAL INFORMATION

Description

HCC1359 is a human non-small cell lung carcinoma (NSCLC) cell line derived from the pleural effusion of an adult male patient. The cell line represents the large cell carcinoma subtype of NSCLC, a category characterized by large, undifferentiated malignant epithelial cells. HCC1359 cells carry a number of relevant oncogenic alterations, notably including a mutation in the *KRAS* gene, which plays a central role in driving tumorigenesis via the RAS/MAPK signaling pathway. These features make HCC1359 a useful model for studying KRAS-mutant NSCLC biology and for evaluating targeted therapies, particularly those aimed at downstream components of the KRAS signaling axis. HCC1359 cells are adherent in culture and display morphological characteristics typical of epithelial tumor cells. The line has been utilized in various pharmacogenomic studies, particularly in high-throughput drug screening platforms that investigate genotype-specific drug sensitivities. Additionally, it has been included in several molecular profiling databases, contributing to the characterization of gene expression patterns, copy number variations, and mutation spectra in lung cancer. However, it is worth noting that the utility of HCC1359 may be limited in contexts requiring small cell lung cancer or adenocarcinoma-specific models, as it specifically reflects large cell histopathology.

Tissue	Lung
Disease	Lung giant cell carcinoma

Synonyms

- HCC-1359
- Hamon Cancer Center 1359

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Morphology	Epithelial
Cell type	Epithelial cell
Doubling time	62.8 hours

IDENTIFIERS

Citation

HCC1359 (Cytion catalog number 305783)

NCBI TaxID	9606
Cellosaurus	CVCL_5128

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HANDLING AND CULTURE

Culture medium

RPMI 1640, w: 2.0 mM stable Glutamine, w: 2.0 g/L NaHCO3 (Cytion article number 820700a)

Incubation atmosphere	37°C, 5% CO_2, humidified atmosphere.

Supplements

Supplement the medium with 10% FBS

Dissociation reagent	Accutase

DONOR

Donor age	55 years
Ethnicity	African American

LEGAL AND SAFETY

Warranty

At Cytion, we stand behind the quality and viability of our products.
We guarantee that our cells will be viable at the start of culture for
60 days after shipment from our facilities.
We assure that all materials conform to the specifications described in the
Certificate of Analysis and/or Product Sheet.
For full details, please refer to our
Warranty Statement.

Material Transfer Agreement required	Yes