

HCC1954 | 305268

Description HCC1954 is a human colorectal adenocarcinoma cell line. It is a highly tumorigenic, anchorage-dependent cell line that grows in suspension as spheroids. HCC1954 is characterized by its ability to form large, multicellular spheroids in suspension culture. The cell line is derived from a primary colorectal adenocarcinoma and is highly tumorigenic. It is a highly tumorigenic, anchorage-dependent cell line that grows in suspension as spheroids. HCC1954 is characterized by its ability to form large, multicellular spheroids in suspension culture.

Organism Homo sapiens

Tissue Colon

Disease Colorectal adenocarcinoma

Synonyms HCC-1954, HCC1954, HCC1954

Age 61 years

Gender Male

Ethnicity Caucasian

Morphology Spheroid

Growth properties Anchorage dependent

Citation HCC1954 (ATCC CCL-229) (ATCC CCL-229) 305268

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1259

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Receptors expressed	HER2/neu - EGFR -
Protein expression	EGFR 2 (EGP2) 19
Oncogenes	Her2/neu+ (EGFR)
Mutational profile	PIK3CA, p.His1047Arg (c.3140A>G) TP53 p.Tyr163Cys (c.488A>G) CLTC + VMP1 = CLTC-vMP1
Culture Medium	RPMI 1640 2.0 2.0 2.0 NaHCO3 (820700a)
Supplements	10% FBS 2.5 10 1
Dissociation Reagent	
Subculturing	PBS
Fluid renewal	2 3
Freeze medium	(FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in fresh medium.
3. Seed the cells into a pre-warmed flask at a density of 15 x 10⁶ cells per flask.
4. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C.
5. Monitor the cell growth and confluency. Harvest cells when they reach 70-80% confluency.
6. Wash the cells with PBS and trypsinize them. Resuspend the cells in fresh medium.
7. Seed the cells into a new flask at a density of 10 x 10⁶ cells per flask.
8. Repeat the process for subsequent passages.

Incubation Atmosphere

37°C, 5% CO₂

Flask Coating

Flasks should be coated with the appropriate coating solution before use.

Freezing Procedure

Cells should be frozen in a controlled rate freezer at -80°C.

Shipping Conditions

Cells should be shipped in a dry ice container at -78°C.

Storage Conditions

Cells should be stored in a liquid nitrogen tank at -150 to -196°C.

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Sterility

Cells are provided in a sterile, cryoprotected medium (PCR) and are free of mycoplasma contamination.