

HCC1954 | 305268

General information

Description	HCC1954 is a human colorectal adenocarcinoma cell line. It was established from a 61-year-old male patient with a primary tumor in the sigmoid colon. The cells are characterized by their ability to form spheroids in vitro and to grow as xenografts in vivo. HCC1954 is a well-established cell line for studying colorectal cancer biology and drug response.
Organism	Human
Tissue	Colorectal
Disease	Colorectal adenocarcinoma
Synonyms	HCC-1954, HCC1954, HCC1954

Cell characteristics

Age	61 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell line identification

Citation	HCC1954 (HCC1954) Cytion 305268
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1259

Cell line maintenance

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Receptors expressed	HER2/neu ⁺ -, EGFR ⁺ HER2 ⁺ -
Protein expression	EGFR 2 (EGP2), HER2 19
Oncogenes	Her2/neu+ (HER2/NEU)
Mutational profile	HER2: PIK3CA, p.His1047Arg (c.3140A>G); TP53, p.Tyr163Cys (c.488A>G); CLTC + VMP1 = CLTC-VMP1
HER2	
Culture Medium	RPMI 1640, w: 2.0 mM Glutamine, w: 2.0 g/L NaHCO3 (Gibco Cytion 820700a)
Supplements	10% FBS, 2.5 µg/ml Insulin, 10 µg/ml HEPES 1 µg/ml Selenium
Dissociation Reagent	Trypsin
Subculturing	Cells are seeded into 25 cm ² flasks in RPMI 1640 medium supplemented with 10% FBS. When cells reach confluence, medium is removed and cells are washed with PBS. Cells are then trypsinized and seeded into new flasks. Media is replaced with fresh medium every 3-5 days.
Fluid renewal	2-3 times per week
Freeze medium	DMEM supplemented with 10% FBS, 10% DMSO, 10% FBS (10% FBS) + 10% DMSO

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**Thawing and
Culturing Cells**

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
2. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
3. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
4. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
5. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
6. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
7. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
8. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

**Freezing
Procedure**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。

**Shipping
Conditions**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。

**Storage
Conditions**

将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。

细胞特性

Sterility

细胞悬液经PCR检测，无DNA污染。细胞悬液经PCR检测，无DNA污染。细胞悬液经PCR检测，无DNA污染。