

HCC1428 | 305782

General information

Description	HCC1428 is a human breast cancer cell line derived from a 49-year-old female patient with luminal B breast cancer. It is characterized by high proliferation rate and is suitable for various in vitro assays. HCC1428 is a cell line derived from a patient with breast cancer. It is characterized by high proliferation rate and is suitable for various in vitro assays. HCC1428 is a cell line derived from a patient with breast cancer. It is characterized by high proliferation rate and is suitable for various in vitro assays.
Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	Metastatic
Synonyms	HCC-1428, HCC1428

Cell characteristics

Age	49 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Cell type	Epithelial
Growth properties	High proliferation rate, suitable for various in vitro assays.

Additional information

Citation	HCC1428 (HCC1428 Cytion 305782)
Biosafety level	1
NCBI_TaxID	9606

Product sheet

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CellosaurusAccession CVCL_1252

NCI-HCC1428 (HCC1428) - HCC1428

Antigen expression
HER2/neu [EGP2] 2+; p53 1+; Her2-neu 1+; p53 1+

Oncogenes
Her2/neu-; p53-

Mutational profile
HER2/neu, ABCG1 + HGNC, SLC37A1, SLC37A1-ABCG1. FHIT, Ex4del, SLC37A1-ABCG1

Karyotype
46,XX

NCI-HCC1428

Culture Medium
DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM sodium butyrate, w: 1.2 g/L NaHCO3 (820400a)

Supplements
10% FBS

Dissociation Reagent
Trypsin

Doubling time
88 hours

Fluid renewal
2-3 times per week

Freeze medium
DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM sodium butyrate, w: 1.2 g/L NaHCO3 (820400a), 10% FBS + 10% DMSO

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial quickly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. **Seeding:** Seed the cells into a well of a 96-well plate at a density of 1×10^5 cells per well. Incubate at 37°C, 5% CO₂.
3. **Media Change:** After 24 hours, replace the medium with fresh pre-warmed medium.
4. **Confluency:** Monitor the cells for confluency. Once they reach 70% confluency, they are ready for use.
5. **Passaging:** When the cells reach confluency, they can be passaged into a new well or a larger vessel.
6. **Freezing:** For long-term storage, freeze the cells in a freezing medium and store at -80°C.
7. **Thawing:** Thaw the vial quickly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
8. **Seeding:** Seed the cells into a well of a 96-well plate at a density of 1×10^5 cells per well. Incubate at 37°C, 5% CO₂.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Shipping
Conditions**

Cells are shipped in a dry ice container at -80°C. The container is labeled with a biohazard symbol and the text "Dry Ice - Biohazard".

**Storage
Conditions**

Cells can be stored at -80°C for up to 12 months. The storage medium should be replaced every 6 months.

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Sterility

The cells are supplied as a suspension in a sterile medium. The medium is tested for sterility using PCR and is found to be sterile. The cells are also tested for sterility using PCR and are found to be sterile.