

Product sheet

HCC1806 | 300467

General information

Description HCC1806 is a cell line derived from a 60-year-old male patient with adenocarcinoma of the colon. The cell line is characterized by its ability to grow in suspension and its sensitivity to various chemotherapeutic agents. It is a well-established model for studying colorectal cancer biology and drug response.

Organism Human

Tissue Colon, Adenocarcinoma

Disease Colorectal cancer, Adenocarcinoma

Applications Cell culture, Drug screening, Cancer research

Synonyms Hcc1806, HCC-1806, Colon adenocarcinoma cell line 1806

Cell characteristics

Age 60 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Cell type Adenocarcinoma

Growth properties Suspension

References and identifiers

Citation HCC1806 (ATCC CCL-221) | Cytion 300467

Biosafety level 1

NCBI_TaxID 9606

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CellosaurusAccession CVCL_1258

Cell Line HCC1806

Receptors expressed EGFR, HER2, PDGFR, IGF1R

Protein expression EGFR2 (EGP2), PDGFR19

Oncogenes Her2/neu-, p53-

Karyotype 46,XX,del(5)(p13),del(17)(p11),del(18)(p11),del(21)(p11) = 59. 46,XX,del(5)(p13),del(17)(p11),del(18)(p11),del(21)(p11),del(22)(p11) = 75. 46,XX,del(5)(p13),del(17)(p11),del(18)(p11),del(21)(p11),del(22)(p11),del(22)(p11) = 79. 46,XX,del(5)(p13),del(17)(p11),del(18)(p11),del(21)(p11),del(22)(p11),del(22)(p11),del(22)(p11) = 22%

Cell Line HCC1806

Culture Medium RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO3 (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are cultured in RPMI 1640 medium supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in RPMI 1640 medium supplemented with 10% FBS. Cells are seeded into T25 flasks at a density of 3-5 x 10^5 cells per flask. Cells are cultured until they reach 70-80% confluency.

Freeze medium RPMI 1640 medium supplemented with 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells in a humidified CO₂ incubator at 37°C and 5% CO₂.
5. Once the cells have reached confluence, passage them into a new T25 flask.
6. The cells should reach 70% confluence within 7-10 days.
7. Harvest the cells by trypsinization.
8. Store the cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells and resuspend in freezing medium. Store in liquid nitrogen at -78°C.

Shipping Conditions Store at -78°C during shipping.

Storage Conditions Store at -150°C for up to 196 months.

Genotype / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. They are also free of endotoxins.