

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 vitro and its sensitivity to various chemotherapeutic agents. It is a well-established model for studying colorectal cancer biology and drug response. HCC1806 cells are derived from a primary tumor and are maintained in culture as a monolayer. The cell line is characterized by its ability to grow in vitro and its sensitivity to various chemotherapeutic agents. It is a well-established model for studying colorectal cancer biology and drug response. HCC1806 cells are derived from a primary tumor and are maintained in culture as a monolayer.

Organism Human

Tissue Colon, Adenocarcinoma

Disease Colorectal cancer, Adenocarcinoma

Applications Cell culture, Drug screening, In vitro studies

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

Characteristics

Age 60 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Cell type Adenocarcinoma

Growth properties Adherent

References

Citation HCC1806 (ATCC CCL-221) | Cytion 300467

Biosafety level 1

NCBI_TaxID 9606

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CellSaurusAccession 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),t(12;17)(p13;p11),t(11;22)(p11;p11) = 59. 46,XX,del(5)(p13),del(17)(p11),t(12;17)(p13;p11),t(11;22)(p11;p11) = 75. 46,XX,del(5)(p13),del(17)(p11),t(12;17)(p13;p11),t(11;22)(p11;p11) = 65-79. 46,XX,del(5)(p13),del(17)(p11),t(12;17)(p13;p11),t(11;22)(p11;p11) = 22%

Cell Line HCC1806

Culture Medium RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO3 (Gibco 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 80-90% confluency.

Freeze medium RPMI 1640 medium supplemented with 10% FBS + 10% DMSO (Gibco Cytion 820700a)

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Transfer the cells to a pre-warmed T25 flask containing 10 ml of complete DMEM medium.
2. Incubate the cells at 37°C in 5% CO₂ until they reach 70-80% confluency.
3. Seed the cells into a 96-well plate (100 µl per well) for high-throughput screening.
4. Use the cells for transfection or other applications as required.
5. Harvest the cells for RNA extraction or other downstream applications.
6. Store the cells at -80°C for long-term storage.
7. Thaw the cells at 37°C and seed them into a new flask.
8. Repeat the process for subsequent passages.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Poly-D-Lysine

Freezing Procedure Harvest cells, resuspend in freezing medium, store at -80°C

Shipping Conditions Store at -80°C, ship on dry ice

Storage Conditions Store at -150°C, 196 K

Genotype / Phenotype / HLA

Sterility Cells are mycoplasma-free and tested for sterility