

SW-1463 | 300623

SW-1463

Description

SW-1463 is a cell line derived from a 66-year-old male patient with metastatic melanoma. The cell line is characterized by the presence of a BRAF V600E mutation and a KRAS G12S mutation. SW-1463 cells are highly proliferative and are used for the study of melanoma biology and drug response.

Organism Human

Tissue Skin

Disease Melanoma

Applications Cell culture, drug screening, genotyping

Synonyms SW1463, SW 1463

Cell Line Characteristics

Age 66 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties High

References

Citation SW-1463 (Cell Line) | Cytion 300623

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1718

Product sheet

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SW-1463 - Colon Cancer Cell Line

| | |
|--------------------|--|
| Surface antigens | CD45, CD44, Rh + |
| Protein expression | CD44 |
| Antigen expression | CD44 (CEA) |
| Isoenzymes | ES-D, 1, G6PD, B, PEP-D, 1, PGD, A, PGM1, 1, PGM3, 1-2 |
| Tumorigenic | Yes, in nude mice |
| Ploidy status | Diploid |
| Karyotype | 2n=46 |

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| | |
|----------------------|---|
| 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 beta-mercaptoethanol, w: 1.2 g/L NaHCO3 (820400a) |
| Supplements | 10% FBS |
| Dissociation Reagent | TrypLE Express (Life Technologies) |
| Subculturing | Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are seeded into T25 flasks at a density of 1-3 x 10^5 cells per flask. Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. |
| Freeze medium | DMEM:Ham's F12 (1:1) 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 µl of medium. Seed the cells into a 96-well plate.
3. Incubate the cells at 37°C with 5% CO₂ in a humidified atmosphere. The cells should reach 70% confluency within 7-10 days.
4. Harvest the cells by trypsinization. Seed the cells into a 96-well plate at a density of 15 µl per well.
5. Incubate the cells at 37°C with 5% CO₂ in a humidified atmosphere. The cells should reach 70% confluency within 7-10 days.
6. Harvest the cells by trypsinization. Seed the cells into a 96-well plate at a density of 15 µl per well.
7. Incubate the cells at 37°C with 5% CO₂ in a humidified atmosphere. The cells should reach 70% confluency within 7-10 days.
8. Harvest the cells by trypsinization. Seed the cells into a 96-well plate at a density of 15 µl per well.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating none

Freezing Procedure Freeze the cells in a freezing medium and store at -80°C.

Shipping Conditions Ship the cells at -80°C.

Storage Conditions Store the cells at -150°C for up to 196 days.

Genotype / HLA

Sterility The cells are free of mycoplasma and PCR detectable. The cells are free of endotoxins.