



### **General information**

Organism Human

Tissue Rectum

**Disease** Rectal adenocarcinoma

**Applications** 3D culture, Cancer research

**Synonyms** SW1463, SW 1463

### **Characteristics**

**Age** 66 years

**Gender** Female

**Ethnicity** European

Morphology Epithelial

Growth properties

Adherent

## **Identifiers / Biosafety / Citation**

**Citation** SW-1463 (Cytion catalog number 300623)

Biosafety level 1

## **Expression / Mutation**

**Surface** Blood type A, Rh + **antigens** 

Protein expression

keratin

**Antigen** carcinoembryonic antigen (CEA) **expression** 

Freeze

medium



# SW-1463 Cells | 300623

ES-D, 1, G6PD, B, PEP-D, 1, PGD, A, PGM1, 1, PGM3, 1-2
Yes, in nude mice
hypertriploid
2n=46
Leibovitz's L-15, w: 2.0 mM L-Glutamine, 0.55 g/L NaHCO3 (We do not supply this product; please consider other suppliers. Please let us know if you need further assistance)
Supplement the medium with 10% FBS
Accutase
Remove the old medium from the adherent cells and wash them with PBS that lacks calcium and magnesium. For T25 flasks, use 3-5 ml of PBS, and for T75 flasks, use 5-10 ml. Then, cover the cells completely with Accutase, using 1-2 ml for T25 flasks and 2.5 ml for T75 flasks. Let the cells incubate at room temperature for 8-10 minutes to detach them. After incubation, gently mix the cells with 10 ml of medium to resuspend them, then centrifuge at 300xg for 3 minutes. Discard the supernatant, resuspend the cells in fresh medium, and transfer them into new flasks that already contain fresh medium.

CM-1 (Cytion catalog number 800100) or CM-ACF (Cytion catalog number 806100)





### Handling of cryopreserved cultures

- 1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
- 2. Upon receipt, either store the cryovial immediately at temperatures below -150?C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
- 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37?C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
- 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
- 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
- 6. Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium. Optionally, skip centrifugation but remove any remaining freezing medium after 24 hours.
- 7. Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
- 8. Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

# Quality control / Genetic profile / HLA

#### **Sterility**

Mycoplasma contamination is excluded using both PCR-based assays and luminescence-based mycoplasma detection methods.

To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.





**STR profile** Amelogenin: x,x

CSF1PO: 11,12 D13S317: 12,13 D16S539: 11 D5S818: 13,14 D7S820: 9 THO1: 6,7 TPOX: 8,11 vWA: 16

D3S1358: 16,17 D21S11: 30,31.2 D18S51: 18 Penta E: 17 Penta D: 9,12 D8S1179: 11,15 FGA: 23,28 D6S1043: 12,18 D2S1338: 17,18 D12S391: 17 D19S433: 14,15