



### **General information**

**Description** Established from the primary pancreas adenocarcinoma of a 43- year-old female with a familial prediposition to

pancreatic carcinoma.

Organism Human

**Tissue** Pancreas

**Disease** Adenocarcinoma

**Synonyms** FamPAC, Fampac, PA-CLS-13, PA-CLS 13

## **Characteristics**

Age 43 years

**Gender** Female

**Ethnicity** Caucasian

Morphology Epithelial-like

Growth properties

Adherent

# **Identifiers / Biosafety / Citation**

**Citation** FAMPAC (Cytion catalog number 300309)

Biosafety level 1

**Depositor** Dr. Schmidt

# **Expression / Mutation**

**Protein** p53, point mutation (CCG (Arg) to CAC (His) **expression** 

**Antigen** FAMPAC cells carry a homozygous Kras mutation in codon12: GGT(Gly) >GTT(Val) **expression** 



# FAMPAC Cells | 300309

Tumorigenic	Yes, in nude mice, adenocarcinoma
Karyotype	45-48, x,+3,-5,+der(5),+der(5),+der(5)add(p14),-7,+10,+2der(10)add(p15)add(q26),der(12)add(p13),der(12)add(p11),-13,-13,+der(13)add(p11),-14,der?(14),-15,i(15q),der(16)(q+),-19,-20,-21,-22,+3-5mar
Handling	

RPMI 1640, w: 2.1 mM stable Glutamine, w: 2.0 g/L NaHCO3 (Cytion article number 820700a)

# Medium

supplements

**Culture** 

**Medium** 

Supplement the medium with 10% FBS

# Passaging solution

# Doubling time

Accutase

24 to 48 hours

## Subculturing

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.

### **Split ratio**

A ratio of 1:4 to 1:6 is recommended

# Seeding density

1 x 10^4 cells/cm^2 will yield in a confluent layer in about 2to3 days

## Fluid renewal

2 to 3 times per week

### Freeze medium

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



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### 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.



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**STR profile** Amelogenin: x,x

CSF1PO: 10 D13S317: 8 D16S539: 14 D5S818: 10,11 D7S820: 11 TH01: 9 TPOX: 8 vWA: 15 D3S1358: 16,17 FGA: 32.2 D1S1656: 15 D6S1043: 12,13 D2S1338: 11

HLA alleles A\*: 03:01:01

B\*: 27:05:02 C\*: 15:02:01 DRB1\*: 12:01:01 DQA1\*: 05:05:01 DQB1\*: 03:01:01 DPB1\*: 03.01:01 E: 01:01:01

**D12S391**: 10,12 **D19S433**: 22