

Product Sheet

H_FAP NIH3T3 Cell Line

Catalog number: GM-C40273

Version 3.3.1.260116

Description	H_FAP NIH3T3 Cell Line is a clonal stable NIH3T3 cell line that constitutively expresses the human FAP gene, constructed using lentiviral technology.
Quantity	5E6 Cells per vial, 1 mL
Product Format	3 vials of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Human FAP
Gene ID/Uniprot ID	Q12884-1
Host Cell	NIH3T3
Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+1 µg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Adherent
Growth Conditions	37°C, 5% CO ₂
Mycoplasma Testing	The cell line has been screened to confirm the absence of Mycoplasma species.
Safety considerations	Biosafety Level 2
Note	It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.

Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-H_FAP hIgG1 Antibody(Simlukafusp)	Genomeditech/GM-30156AB

Figures

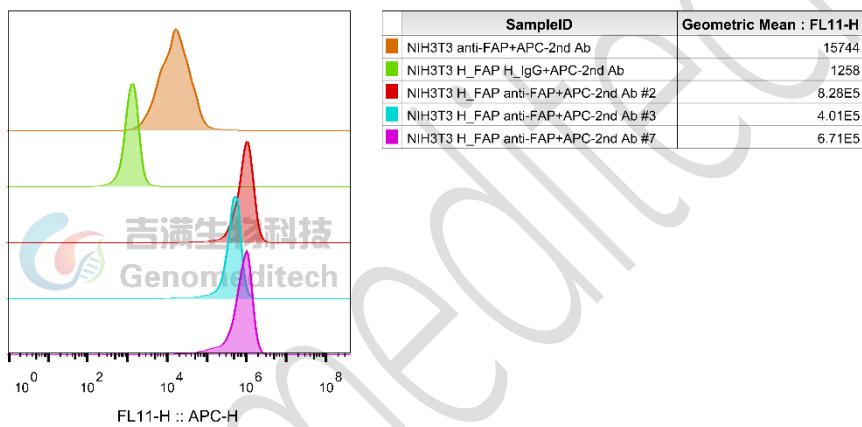


Figure 1 | H_FAP NIH3T3 Cell Line (Cat. GM-C40273) was determined by flow cytometry using Anti-H_FAP hIgG1 Antibody(Simlukafusp) (Cat. GM-30156AB).

Cell Recovery

Recovery Medium: DMEM+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

- Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 - 3 minutes).
- Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
- Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately 176 x g for 5 minutes. Discard supernatant.
- Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.

e) Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- a) Centrifuge at 176 x g for 3 minutes to collect cells.
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
- c) Aliquot 1 mL into each vial.
- d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

Cell passage

Growth medium: DMEM+10% FBS+1% P.S+1 µg/mL Puromycin

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth medium.

- a) Subculturing is necessary when the cell density reaches 60%. It is recommended to perform subculturing at a ratio of 1:4 to 1:5 every 2-3 days.
- b) Remove and discard culture medium.
- c) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- d) Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell layer is dispersed (usually within 30 seconds at 37°C).
- e) Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
- f) Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- g) After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
- h) Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:4 - 1:5 is recommended

Medium Renewal: Every 2 to 3 days

Notes

- a) FBS needs to be heat-inactivated at 56°C for 30 minutes. This process inactivates complement proteins and some viruses, but does not significantly affect the activity of most growth factors and cytokines.
- b) Cells should never be allowed to become over-confluent. Subculturing should be performed at least twice per week to ensure that cell density does not exceed 80%.

Sequence

FAP Q12884-1

MKTWVKIVFGVATSAVLALLVMCIVLRPSRVHNSEENTMRALTLKDILNGTFSYKTFPNWISGQEYLHQSA
DNNIVLYNIETGQSYTILSNRTMKSVDASNYGLSPDRQFVYLEDYSKLWRYSYTATYYIYDLSNGEFVRGN
ELPRPIQYLCWSPVGSKLA YVYQNNIYLKQRPGDPPFQITFNGRENKIFNGIPDWVYEEEMLATKYALWWSP
NGKFLAYAEFNNDTIDIPVIA YSYYGDEQYPRTINIPYPKAGAKNPVVRIFIIDTTYPAYVGPQEVPVPAMIASSD
YYFSWLTWVTDERVCLQWLKRVQNVSVLSICDFREDWQTWDCPKTQEHIESTGWAGGFFVSTPVFSYDA
ISYYKIFSDKDGYKHIYIKDTVENAIQITSGKWEAINIFRVTQDSL FYSSNEFEYPGRRNIYRISIGSYPPSKKC
VTCHLRKERCQYYTASFSDYAKYYALVCYGGPGIPISTLHDGRTDQEIKILEENKELENALKNIQLPKEEIKKLE
VDEITLWYKMLPPQFDRSKYPLIQVYGGPCSQSVRSVFAVNWISYLASKEGMVIALVDGRGTAFQGDKL
LYAVYRKLGVYEVEDQITAVRKFIEMGFIDEKRIAIWGSYGGYVSSLALASGTGLFKCGIAVAPVSSWEYY
ASVYTERFMGLPTKDDNLEHYKNSTVMARA EYFRNVDYLLIHTADDNVHFQNSAQIAKALVNAQVDFQA
MWYSDQNHGLSGLSTNHLYTHMTHFLKQCFSLSD

Related Products

FAP	
H_FAP CHO-K1 Cell Line	H_FAP HEK-293 Cell Line
H_FAP HT-1080 Cell Line	
Anti-H_FAP hIgG1 Antibody(Simlukafusp)	

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