

Product Sheet

H_ITGB6 NIH-3T3 Cell Line

Catalog number: GM-C41634

Version 3.3.1.250801

Description	H_ITGB6 NIH-3T3 Cell Line is a clonal stable NIH-3T3 cell line that constitutively expresses the Human ITGB6 gene, constructed using lentiviral technology.
Quantity	5E6 Cells per vial, 1 mL
Product Format	1 vial of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Human_ITGB6
Gene ID/Uniprot ID	P18564-1
Host Cell	NIH-3T3
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-ITGB6 hIgG1 Antibody(SGN-B6A)	Genomeditech/ GM-81622AB

Figures

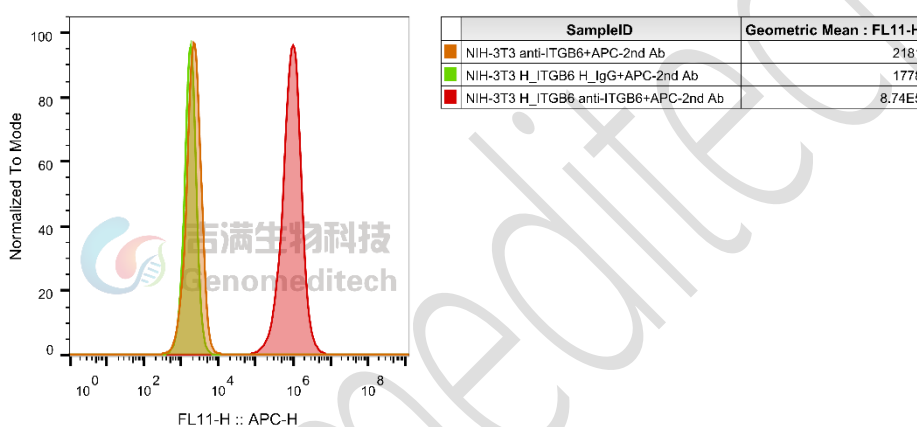


Figure 1 | H_ITGB6 NIH-3T3 Cell Line (Cat. GM-C41634) was determined by flow cytometry using Anti-ITGB6 hIgG1 Antibody(SGN-B6A) (Cat. [GM-81622AB](#)).

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

- Centrifuge at 176 x g for 3 minutes to collect cells.
- Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
- Aliquot 1 mL into each vial.
- 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.

- 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.
- Remove and discard culture medium.
- Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- 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).
- 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.
- Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
- 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

- 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.
- 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

ITGB6 P18564-1

MGIELLCLFFLFLGRNDHVQGGCALGGAETCEDCLLIGPQCAWCAQENFTHPSGVGERCDTPANLLAKGCQL
 NFIEPNVSQVEILKNKPLSVGRQKNSSDIVQIAPQSLILKLPGGAQTLQVHVRQTEDYPVDLYYLMDSLASM
 DDDLNTIKELGSRLSKEMSKLTSNFRLLGFGSFVEKPVSPFVKTTPEEIANPCSSIPYFCLPTFGFKHILPLTND
 RFNEIVKNQKISANIDTPEGGFDAIMQAAVCKEKIGWRNDSLHLLVVFVSDADSHFGMDSKLAGIVIPNDGLCH
 LDSKNEYSMSSTVLEYPTIGQLIDKLQNNVLLIFAVTQEQLVYENYAKLIPGATVGLLQKDSGNILQLIISAY
 EELRSEVELEVLGDTEGLNLSFTAICNNGTLFQHQKKCSHMKVGD TASFSVTVNIPHCERRSRHIIKPVGLGD
 ALELLVSPECNCDQCQKEVEVNSSKCHHGNGSFQCGVCACHPGHMGPRCECGEDMLSTDSCKEAPDHPSCSG
 RGDCYCGQCICHLSPYGNIGPYCQCDNFSCVRHKGLLCGGNGDCDCGECVCRSGWTGEYCNCCTTSTDSCV
 SEDGVLCSGRGDCVCGKCVCTNPGASGPTCERCPTCGDPCNSKRSCIECHLSAAGQAREECVDKCKLAGATI
 SEEEDFSKDGSVSCSLQGENECLITFLITTDNEGKTIHSINEKDCPKPPNIPMIMLGVSLLAILLIGVLLCIWKLL
 VSFHDRKEVAKFEAERSKAKWQTGTNPLYRGSTSTFKNVITYKHREKQKVLDLSTDC*

Related Products

TGF-β:GARP:avβ6	
H_GARP Latent TGFB1 Reporter HEK-293 Cell Line	TGF-β Reporter 293 DDX35TM Cell Line
TGF-β Reporter HEK-293 Cell Line	Cynomolgus_αvβ6 HEK-293 Cell Line
H_GARP HEK-293 Cell Line	H_GARP Latent TGF-β1 CHO-K1 Cell Line
H_GARP Latent TGF-β1 HEK-293 Cell Line	H_ITGB6 CHO-K1 Cell Line
H_ITGB6 HEK-293 Cell Line	H_αvβ6 CT26 Cell Line
H_αvβ6 HEK-293 Cell Line	H_αvβ6 LLC1 Cell Line
H_αvβ6 MC38 Cell Line	
Anti-GARP-TGF-β1 hIgG4 Antibody(ARGX-115)	Anti-ITGB6 hIgG1 Antibody(SGN-B6A)
Anti-TGFB1 hIgG4 Antibody(SRK-181)	Anti-αv hIgG2 Antibody(Abituzumab)
Anti-αvβ6 hIgG1 Antibody(m15H3)	Anti-ITGB6-MMAE ADC(Dar4)[SGN-B6A]
ADC Related Product	
Anti-DXD Mouse IgG1 Antibody (23E21C5)	Anti-DXD Mouse IgG1 Antibody (4A5A12)
Anti-Dxd Mouse IgG2a Antibody (17D6A4)	Anti-Eribulin Mouse IgG2a Antibody (10F8G4)
Anti-MMAE Mouse IgG1 Antibody (11C10E3)	Anti-MMAE Mouse IgG2a Antibody (17A1K11)
Anti-MMAE Mouse IgG2a Antibody (8F6A3)	Mouse anti Human IgG1-MMAE(Dar4)
Human IgG1 Isotype-DXD (Dar8)	Human IgG1 Isotype-Eribulin (Dar4)
Human IgG1 Isotype-MMAE (Dar4)	
Recombinant DT3C Protein	

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