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Product Sheet

H_STING KO THP1 Cell Line

Catalog number: GM-C21621

Version 3.3.1.250115

H_STING KO THP1 Cell Line is a clonal stable cell line derived from THP1 cells with a

Description knockout of human STING.

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_STING

Gene ID/Uniprot ID /

Host Cell THP1

Recovery Medium RPMI 1640(ATCC)+20% FBS+1% P.S+0.05 mM β -Me

Growth medium RPMI 1640(ATCC)+10% FBS+1% P.S+0.05 mM β -Me+2 μ g/mL Blasticidin+0.5 μ g/mL

Puromycin

Cells should be cultured using ATCC/30-2001 RPMI 1640 medium or Growth medium from **Note**

Genomeditech. The serum should be Cegrogen biotech/A0500-3010 or sourced from Gibco.

Freezing Medium 90% FBS+10% DMSO

Growth properties Suspension

Growth Conditions 37°C, 5% CO₂

Mycoplasma TestingThe 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.



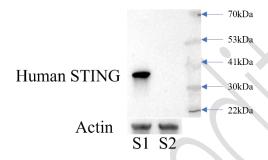
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Materials

Reagent	Manufacturer/Catalogue No.
RPMI 1640(ATCC)	ATCC/30-2001
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/GM-040404
Puromycin	Genomeditech/GM-040401
Human STING/TMEM173 Antibody	R&D SYSTEMS/MAB7169

Figures



S1: CON S2: H STING1 KO (GM-C21621/Genomeditech)

Figure 1 | The protein expression levels of Human STING in the H_STING KO THP1 Cell Line(Cat. GM-C21621) were determined by Western blotting (WB).



Figure 2 | The Sanger sequencing of the H_STING KO THP1 Cell Line(Cat. GM-C21621) showed successful knockout of STING.

Cell Recovery

Recovery Medium: RPMI 1640(ATCC)+20% FBS+1% P.S+0.05 mM β-Me

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.



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a) 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).

- b) 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.
- c) 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.
- d) Resuspend cell pellet with the recommended complete medium. And dispense the suspension into an appropriate culture flask and initially place the flask in an upright position after thawing.
- 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: RPMI 1640(ATCC)+10% FBS+1% P.S+0.05 mM β -Me+2 μ g/mL Blasticidin+0.5 μ g/mL Puromycin During the first two passages after cell thawing, use the recovery medium. Once the cell status stabilizes, switch to growth medium containing antibiotics.

- a) When the cell density reaches 8E5 cells/mL, subculture the cells. Do not allow the cell density to exceed 1E6 cells/mL.
- b) It is recommended to use T-25 flasks for subculturing.
- c) These cells are suspension cells, and it is recommended to use the "half-medium change" method to maintain optimal cell conditions during passaging.
- d) During passaging, you can directly add fresh growth medium to the culture flask, gently pipette to resuspend the cells, and then transfer the cell suspension to a new T-25 flask for continued culture.

Subcultivation Ratio: Maintain cultures at a cell concentraion between 2.5E5 and 8E5 viable cells/mL.

Medium Renewal: Every 2 to 3 days

Notes

- a) After thawing, cell growth is slow, and there will be a significant amount of cellular debris in the background. As the cells recover, the background will gradually become cleaner, with a recovery period estimated at 1 to 1.5 weeks.
- b) These cells are sensitive to cell density, so please ensure that cell density is maintained within an appropriate range during culture and passaging.



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c) The culture medium for these cells must be supplemented with β -mercaptoethanol. Failure to add this supplement may negatively affect cell status.

d) Cells should be cultured using ATCC/30-2001 RPMI 1640 medium or complete medium purchased from Geomeditech. The serum used should be the same as specified in the manual or Gibco serum.

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	TLR8
H_TLR8 Reporter 293 Cell Line	H_TLR8 HEK-293 Cell Line
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