

CHO/Human Mesothelin Stable Cell Line Development Service

CHO/Human Mesothelin Stable Cell Line

Catalog No.	Size
SCCHO-ATP120	2 × (1 vial contains ~5×10 ⁶ cells)

• *Description*

The CHO/Human Mesothelin Stable Cell Line was engineered to express the receptor full length human Mesothelin (Gene ID: 10232), used to mimic cancer target cells. Surface expression of human Mesothelin was confirmed by flow cytometry.

• *Application*

- Useful for cell-based Mesothelin binding assay

• *Cell Line Profile*

Cell line	CHO/Human Mesothelin Stable Cell Line
Host Cell	CHO
Property	Adherent
Complete Growth Medium	F-12K + 10% FBS
Selection Marker	Puromycin (2 µg/mL)
Incubation	37°C with 5% CO ₂
Doubling Time	22-24 hours
Transduction Technique	Lentivirus

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• *Materials Required for Cell Culture*

- F-12K Nutrient Mixture (Gibco, Cat.No.21127-022)
- Fetal bovine serum (CellMax, Cat.No.SA211.02)
- Puromycin (InvivoGen, Cat.No.ant-pr-5b)
- Complete Growth Medium: F-12K + 10% FBS
- Culture Medium: F-12K + 10% FBS, Puromycin (2 µg/mL)
- Freeze Medium: 90% FBS, 10% (V/V) DMSO
- T-75 Culture flask (Corning, 430641)
- Cryogenic storage vials (SARSTEDT, 72.379.007)
- Thermostat water bath
- Centrifuge
- Luna cell counter (Logos Biosystems, LUNA- II)
- CO₂ Incubator (Thermo, 3111)
- Biological Safety Cabinet (Thermo, 1389)

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• *Recovery*

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 70% ethanol. All the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 4.0 mL complete growth medium and spin at approximately 1000 rpm for 5 minutes.
4. Resuspend cell pellet with 5 mL complete growth medium and transfer the cell suspension into T-75 flask containing 10-15 mL of pre-warmed complete growth medium.
5. Incubate at 37°C with 5% CO₂ incubator until the cells are ready to be split.

• *Subculture*

1. Remove and discard culture medium.
2. Wash the cells once with sterile PBS.
3. Add 3 mL of 0.25% trypsin to cell culture flask. Place the flask at 37°C for 5-7 minutes, until 90% of the cells have detached.
4. Add 6.0 to 8.0 mL of culture medium and aspirate cells by gently pipetting.
5. Add appropriate aliquots of the cell suspension to new culture vessel.
6. Incubate at 37°C with 5% CO₂ incubator.

Subcultivation Ratio: A subcultivation ratio of 1:6 to 1:10 is recommended.

Medium Renewal: Every 2 to 3 days.

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• *Cryopreservation*

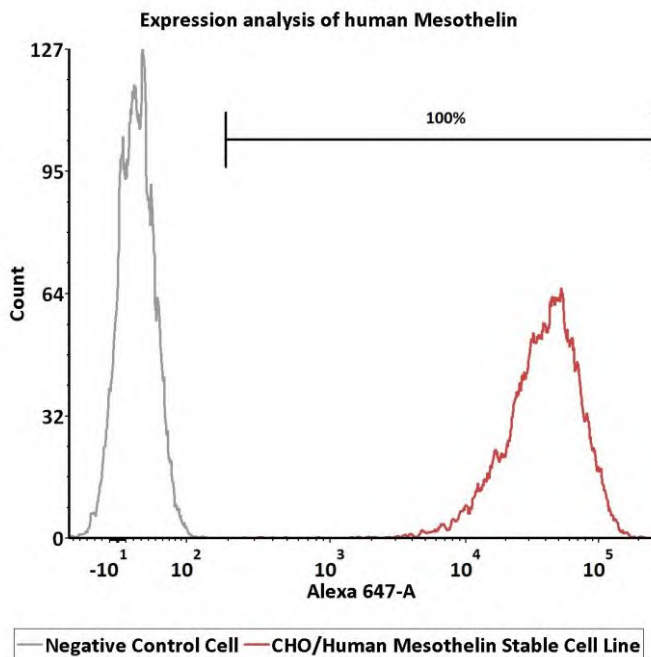
1. Remove and discard spent medium.
2. Detach cells from the cell culture flasks with 0.25% trypsin.
3. Centrifuge at 1000 rpm for 5 min at RT to pellet cells.
4. Resuspend the cell pellets with complete growth medium and count viable cells.
5. Centrifuge at 1000 rpm for 5 min at RT and resuspend cells in freezing medium to a concentration of 5×10^6 to 1×10^7 cells/mL.
6. Aliquot into cryogenic storage vials. Place vials in a programmable cooler or an insulated box placed in a -80°C freezer overnight, then transferring to liquid nitrogen storage.

• *Storage*

- **Product format:** Frozen
- **Storage conditions:** Liquid nitrogen immediately upon receipt

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• *Receptor Assay*



Catalog No.	Stable Cell Line	MFI for Mesothelin (Alexa 647)
NA	Negative Control Cell	21.77
SCCHO-ATP120	CHO/Human Mesothelin Stable Cell Line	39161.53

Fig1. Expression analysis of human Mesothelin on CHO/Human Mesothelin Stable Cell Line by FACS. Cell surface staining was performed on CHO/Human Mesothelin Stable Cell Line or negative control cell using Alexa 647-labeled anti-human Mesothelin antibody.

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• *Related Products*

Products

Cat.No.

HEK293/Human CEACAM5 Stable Cell Line	CHEK-ATP083
HEK293/Human DLL3 Stable Cell Line	CHEK-ATP090
HEK293/Human ROR1 Stable Cell Line	CHEK-ATP084
HEK293/Human FOLR1 Stable Cell Line	CHEK-ATP091
HEK293/Human Glypican-3 (GPC3) Stable Cell Line	CHEK-ATP092
CHO/Human STEAP1 Stable Cell Line Development Service	SCCHO-ATP121
CHO/Human Glypican-3 (GPC3) Stable Line Development Service	SCCHO-ATP112