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Product Sheet

Membrane Bound H_TNFα(cleavage-resistant) CHO-K1 Cell Line

Catalog number: GM-C33297

Version 3.3.1.250606

Membrane Bound H TNFα (cleavage-resistant) CHO-K1 Cell Line is a clonal, stable CHO-

Description K1 cell line that constitutively expresses a cleavage-resistant mutant form of the human

TNFα (TNF) 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 $TNF\alpha(TNF)$

Gene ID/Uniprot ID P01375(Ala76Leu & Val77Leu)

Host Cell CHO-K1

Recovery Medium F12K+10% FBS+1% P.S

Growth medium F12K+10% FBS+1% P.S+4 μg/mL Puromycin

Note None

Freezing Medium 90% FBS+10% DMSO

Growth properties Adherent

Growth Conditions 37°C, 5% CO₂

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.



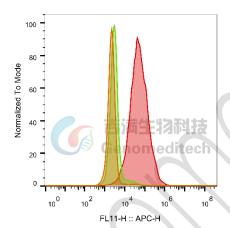
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Materials

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
ADCC FcγRIIIa(158V) Jurkat Effector Cell Line	Genomeditech/GM-C05619
Anti-TNF- a hIgG1 Antibody (CT-P17)	Genomeditech/GM-49267AB
GMOne-Step Luciferase Reporter Gene Assay Kit	Genomeditech/GM-040503

Figures



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-TNFα+APC-2nd Ab	2235
CHO-K1 H_TNFα H_IgG+APC-2nd Ab	3211
CHO-K1 H_TNFα anti-TNFα+APC-2nd Ab	50787

Figure 1 | Membrane Bound H_TNF α (cleavage-resistant) CHO-K1 Cell Line (Cat. GM-C33297) was determined by flow cytometry using Anti-TNF- α hIgG1 Antibody(CT-P17) (Cat. GM-49267AB).

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Membrane Bound H_TNFα(cleavage-resistant) CHO-K1 Cell Line ADCC FcγRIIIa(158V) Jurkat Effector Cell Line

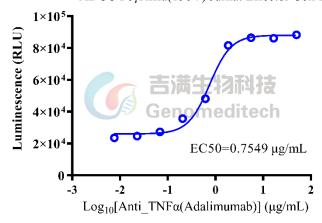


Figure 2 | Anti-TNF- α -mediated ADCC assays on CHO-K1 cells. The ADCC FcyRIIIa(158V) Jurkat Effector Cell Line(Cat. GM-C05619) at a concentration of 1.5E6 cells/well was co-cultured with Membrane Bound H_TNF α (cleavage-resistant) CHO-K1 Cell Line (Cat. GM-C33297) at a concentration of 1E4 cells/well, in the presence of serial dilutions of the Anti-TNF- α hIgG1 Antibody(CT-P17) (Cat. GM-49267AB) for 6 hours (96-well format). The firefly luciferase activity was measured using the GMOne-Step Luciferase Reporter Gene Assay Kit (Cat. GM-040503). Data are shown by drug mass concentration.

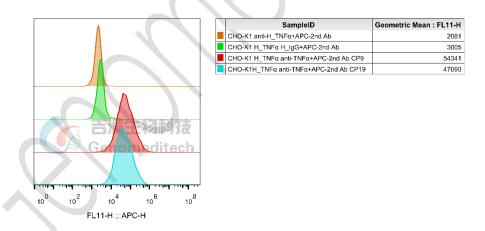


Figure 3 | The passage stability of the Membrane Bound H_TNF α (cleavage-resistant) CHO-K1 Cell Line (Cat. GM-C35006) was determined by flow cytometry using Anti-TNF- α hIgG1 Antibody(CT-P17) (Cat. GM-49267AB).

Cell Recovery

Recovery Medium: F12K+10% FBS+1% P.S



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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.

- 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 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: F12K+10% FBS+1% P.S+4 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) Remove and discard culture medium.
- b) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- c) 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 2 to 3 minutes at 37°C).
- d) 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.
- e) Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- f) After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
- g) Incubate cultures at 37°C.

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

Medium Renewal: Every 2 to 3 days



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Notes

a) After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

Sequence

TNFα(TNF) P01375(Ala76Leu & Val77Leu)

 $MSTESMIRD VELAEEALPKKTGGPQGSRRCLFLSLFSFLIVAGATTLFCLLHFGVIGPQREEFPRDLSLISPLAQ\\ LLRSSSRTPSDKPVAHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCP\\ STHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL*$

Related Products

TNF:TNFR2:TNFR1		
H_TNFR2 Null Reporter Cell Line	H_TNFR2 Reporter Jurkat Cell Line	
H_TNFR2 Reporter V2 Cell Line	Cynomolgus_TNFRSF1B(TNFR2) CHO-K1 Cell Line	
H_TNFRSF1B(TNFR2) CHO-K1 Cell Line	H_TNFRSF1B(TNFR2) HEK-293 Cell Line	
Membrane Bound H_TNFα CHO-K1 Cell Line		
Anti-H_TNFR2 hIgG1 Antibody(1H10)	Anti-H_TNFRSF1B(TNFR2) hIgG1 Antibody(UC2.3.8)	
Anti-TNFR1 hIgG1 Antibody(Atrosab)	Anti-TNF- a hIgG1 Antibody (CT-P17)	

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