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# **Product Sheet**

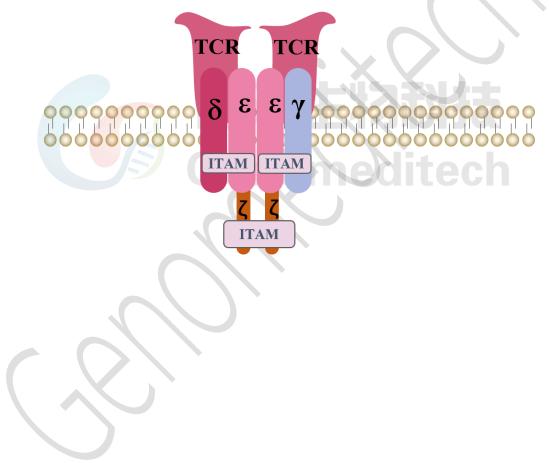
# H\_CD3 CHO-K1 Cell Line

Catalog number: GM-C32931

Version 3.3.1.240914

The CD3 complex, also known as the T3 complex, is a multimeric protein complex composed of four different polypeptide chains: epsilon ( $\epsilon$ ), gamma ( $\gamma$ ), delta ( $\delta$ ), and zeta ( $\zeta$ ). These chains assemble and function as three pairs of dimers:  $\epsilon\gamma$ ,  $\epsilon\delta$ , and  $\zeta\zeta$ . The CD3 protein complex is a defining feature of the T-cell lineage, thus anti-CD3 antibodies can be effectively used as markers for T cells.

H\_CD3 CHO-K1 Cell Line is a clonal stable CHO-K1 cell line constitutively expressing human CD3 complex.





## Specifications

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		
Recovery Medium	F12K+10% FBS+1% P.S		
Growth medium	F12K+10% FBS+1% P.S+200 µg/mL G418+100µg/mL Hygromycin		
Note	None		
Freezing Medium	90% FBS+10% DMSO		
Growth properties	Adherent		
Growth Conditions	37°C, 5% CO <sub>2</sub>		
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.
Hygromycin	Genomeditech/GM-040403
G418	Genomeditech/GM-040402
Pen/Strep	Thermo/15140-122
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
F12K	BOSTER/PYG0036
Anti-CD3 hIgG1 Antibody(CH2527)	Genomeditech/GM-33037AB



515

434

#### **Figures**

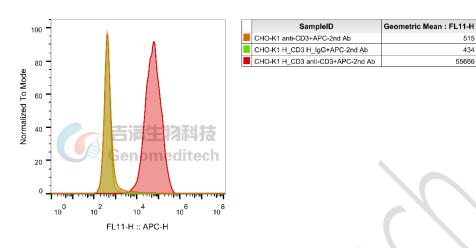


Figure 1 | H\_CD3 CHO-K1 Cell Line was determined by flow cytometry using Anti-CD3 hIgG1 Antibody(CH2527) (Cat. GM-33037AB).

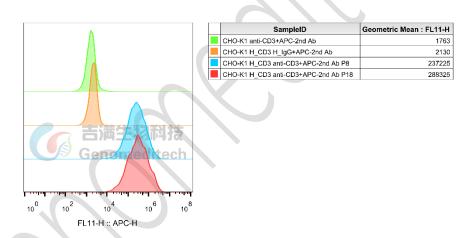


Figure 2 | The passage stability of the H\_CD3 CHO-K1 Cell Line (Cat. GM-C32931) was determined by flow cytometry using Anti-CD3 hIgG1 Antibody(CH2527)(Cat. GM-33037AB).



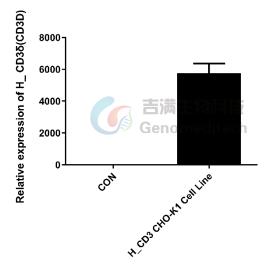


Figure 3 | The mRNA expression levels of  $H_CD3\delta(CD3D)$  in the  $H_CD3$  CHO-K1 Cell Line (Cat. GM-C32931) were determined by RT-qPCR.

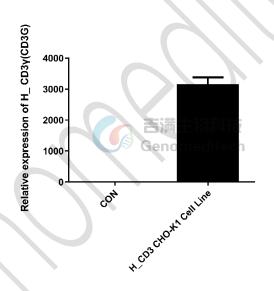


Figure 4 | The mRNA expression levels of  $H_CD3\gamma(CD3G)$  in the  $H_CD3$  CHO-K1 Cell Line (Cat. GM-C32931) were determined by RT-qPCR.



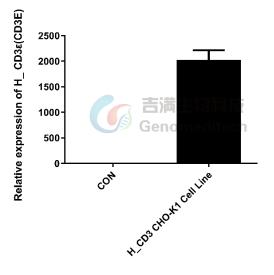


Figure 5 | The mRNA expression levels of H\_CD3ε(CD3E) in the H\_CD3 CHO-K1 Cell Line (Cat. GM-C32931) were determined by RT-gPCR.

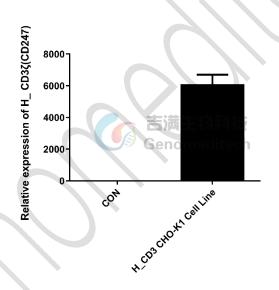


Figure 6 | The mRNA expression levels of H\_CD3ζ(CD247) in the H\_CD3 CHO-K1 Cell Line (Cat. GM-C32931) were determined by RT-qPCR.

#### **Cell Recovery**

Recovery Medium: F12K+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  $-70^{\circ}$ C. Storage at  $-70^{\circ}$ 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).

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- 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% CO<sub>2</sub> 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+200 µg/mL G418+100µg/mL Hygromycin

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).
- 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

#### 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.

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#### **Related Products**

CD28			
H_CD28 Reporter Jurkat Cell Line	Cynomolgus_CD28 CHO-K1 Cell Line		
H_CD28 CHO-K1 Cell Line	H_CD28 HEK-293 Cell Line		
Anti-CD28 hIgG4 Antibody(FR104)	Anti-H_CD28 hIgG4 Antibody(Theralizumab)		
CD3			
Jurkat CD3-BsAb Reporter Cell Line	Cynomolgus_CD3 HEK-293 Cell Line		
Cynomolgus_CD3E(Membrane Bound ECD) CHO-K1 Cell Line	H_CD3 HEK-293 Cell Line		
H_CD3E(Membrane Bound ECD) CHO-K1 Cell Line	Mouse_CD3 HEK-293 Cell Line		
Anti-CD3 epsilon hIgG1 Antibody [OKT-3 (muromonab)]	Anti-CD3 hIgG1 Antibody(CH2527)		

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