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# **Product Sheet**

## **H\_CTLA4 PD-1 CHO-K1 Cell Line**

Catalog number: GM-C39703

Version 3.3.1.250409

H\_CTLA4 PD-1 CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively **Description** 

expresses the human CTLA4 and PD-1 genes, 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\_CTLA4 & Human\_PD-1

**Gene ID/Uniprot ID** P16410 & Q15116

Host Cell CHO-K1

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

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

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.



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#### **Materials**

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/GM-040404
Puromycin	Genomeditech/GM-040401
Anti-H_CTLA-4 hIgG1 Antibody(Ipilimumab)	Genomeditech/GM-27203AB
Anti-PD1 hIgG4 Reference Antibody (Pembio)	Genomeditech/GM-87802MAB

## **Figures**

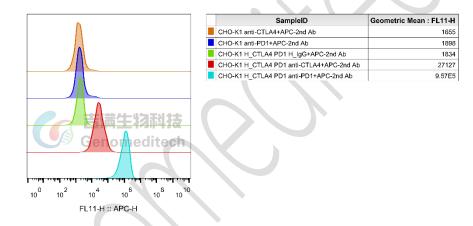


Figure 1 | H\_CTLA4 PD-1 CHO-K1 Cell Line (Cat. GM-C39703) was determined by flow cytometry using Anti-H\_CTLA-4 hIgG1 Antibody(Ipilimumab) (Cat. GM-27203AB) and Anti-PD1 hIgG4 Reference Antibody (Pembio) (Cat. GM-87802MAB).

## **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°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.



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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+4 μg/mL Blasticidin+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

#### **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

CTLA4 P16410



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 $MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVT\\ VLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIYVIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN*$ 

#### PD-1 Q15116

 $MQIPQAPWPVVWAVLQLGWRPGWFLDSPDRPWNPPTFSPALLVVTEGDNATFTCSFSNTSESFVLNWYRMS\\ PSNQTDKLAAFPEDRSQPGQDCRFRVTQLPNGRDFHMSVVRARRNDSGTYLCGAISLAPKAQIKESLRAELR\\ VTERRAEVPTAHPSPSPRPAGQFQTLVVGVVGGLLGSLVLLVWVLAVICSRAARGTIGARRTGQPLKEDPSA\\ VPVFSVDYGELDFQWREKTPEPPVPCVPEQTEYATIVFPSGMGTSSPARRGSADGPRSAQPLRPEDGHCSWPL$ 

#### **Related Products**

CTLA4:CD80:CD86	
H_CD80 aAPC CHO-K1 Cell Line	H_CD80 PDL1 aAPC CHO-K1 Cell Line
H_CTLA4 PD-1 Reporter Cell Line	H_CTLA4 Reporter Jurkat Cell Line
Canine_CTLA4 CHO-K1 Cell Line	Cynomolgus_CTLA4 HEK-293 Cell Line
H_CTLA4 CHO-K1 Cell Line	H_CTLA4 HEK-293 Cell Line
H_CTLA4 Jurkat Cell Line	
Anti-CTLA4 hIgG1 Reference Antibody (Ipibio)	Anti-CTLA-4/PD-1 hIgG1 Bispecific Antibody(Cadonilimab)
Anti-H_CD80 hIgG1 Antibody(Galiximab)	Anti-H_CTLA-4 hIgG1 Antibody(Ipilimumab)
Anti-mouse CTLA4 mIgG2b Antibody(9D9)	Anti-mouse CTLA4 Syrian Hamster IgG2 Antibody(9H10)
Biotinylated Cynomolgus CTLA4 Protein; His-Avi Tag	Biotinylated Mouse CTLA4 Protein; His-Avi Tag
Cynomolgus CTLA4 Protein; His Tag	Mouse CTLA4 Protein; His Tag

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