

# Product Sheet

## Membrane Bound H\_IL17A CHO-K1 Cell Line

Catalog number: GM-C28790

Version 3.3.1.250926

|                              |                                                                                                                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>           | Membrane bound H_IL17A CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively expresses a tandem dimer of human IL-17A (2×IL-17A), constructed using lentiviral technology. |
| <b>Quantity</b>              | 5E6 Cells per vial, 1 mL                                                                                                                                                                      |
| <b>Product Format</b>        | 1 vial of frozen cells                                                                                                                                                                        |
| <b>Shipping</b>              | Shipped on dry ice                                                                                                                                                                            |
| <b>Storage Conditions</b>    | Liquid nitrogen immediately upon receipt                                                                                                                                                      |
| <b>Target</b>                | Human_IL17A                                                                                                                                                                                   |
| <b>Gene ID/Uniprot ID</b>    | Q16552                                                                                                                                                                                        |
| <b>Host Cell</b>             | CHO-K1                                                                                                                                                                                        |
| <b>Recovery Medium</b>       | F12K+10% FBS+1% P.S                                                                                                                                                                           |
| <b>Growth medium</b>         | F12K+10% FBS+1% P.S+4 µg/mL Puromycin                                                                                                                                                         |
| <b>Note</b>                  | None                                                                                                                                                                                          |
| <b>Freezing Medium</b>       | 90% FBS+10% DMSO                                                                                                                                                                              |
| <b>Growth properties</b>     | Adherent                                                                                                                                                                                      |
| <b>Growth Conditions</b>     | 37°C, 5% CO <sub>2</sub>                                                                                                                                                                      |
| <b>Mycoplasma Testing</b>    | The cell line has been screened to confirm the absence of Mycoplasma species.                                                                                                                 |
| <b>Safety considerations</b> | Biosafety Level 2                                                                                                                                                                             |
| <b>Note</b>                  | 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.              |
|----------------------------------------------|-----------------------------------------|
| F12K                                         | BOSTER/PYG0036                          |
| Fetal Bovine Serum                           | ExCell/FSP500                           |
| Pen/Strep                                    | Thermo/15140-122                        |
| Puromycin                                    | Genomeditech/ <a href="#">GM-040401</a> |
| H_IL17A Reporter 293 Cell Line               | Genomeditech/ <a href="#">GM-C06721</a> |
| Anti-IL17A hIgG4 Reference Antibody (Ixebio) | Genomeditech/GM-88046MAB                |

## Figures

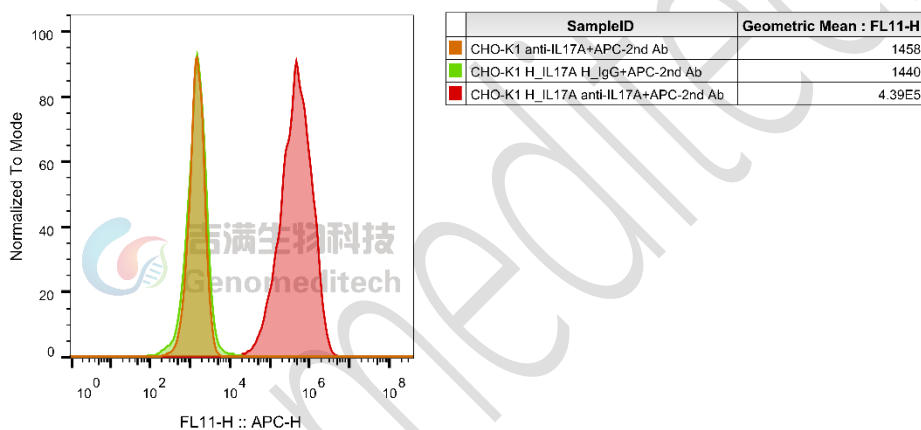


Figure 1 | Membrane Bound H\_IL17A CHO-K1 Cell Line (Cat. GM-C28790) was determined by flow cytometry using Anti-IL17A hIgG4 Reference Antibody (Ixebio) (Cat. GM-88046MAB).

Membrane Bound H\_IL17A CHO-K1 Cell Line  
H\_IL17A Reporter 293 Cell Line

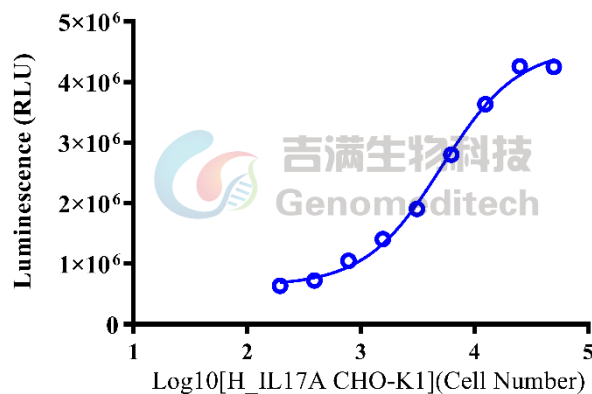


Figure 2 | Response to Membrane Bound H\_IL17A CHO-K1 Cell Line. H\_IL17A Reporter 293 Cell Line (Cat. [GM-C06721](#)) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Membrane Bound H\_IL17A CHO-K1 Cell Line (Cat. GM-C28790) for 6 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech).

## 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.

- 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).
- 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.
- 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.
- Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
- 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

- Centrifuge at 176 x g for 3 minutes to collect cells.
- 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**

## 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

IL17A [Q16552](#)

MTPGKTSLSVLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNNRSTSPW  
NLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCV  
TPIVHHVA

## Related Products

| IL-17                                                          |                                                                 |
|----------------------------------------------------------------|-----------------------------------------------------------------|
| <a href="#">H_IL17A Reporter 293 Cell Line</a>                 | <a href="#">H_IL17A Reporter 293 DDX35TM Cell Line</a>          |
| <a href="#">Anti-IL-17A hIgG1 Antibody(Secukinumab)</a>        | <a href="#">Anti-IL17A hIgG1 Reference Antibody (Secubio)</a>   |
| <a href="#">Biotinylated Human IL-17A Protein; His-Avi Tag</a> | <a href="#">Biotinylated Human IL-17RA Protein; His-Avi Tag</a> |
| <a href="#">Cynomolgus IL-17A Protein; His Tag</a>             | <a href="#">Cynomolgus IL-17F Protein; His Tag</a>              |
| <a href="#">Human IL-17A Protein; hFc Tag</a>                  | <a href="#">Human IL-17A Protein; His Tag</a>                   |

|                                                                   |                                                               |
|-------------------------------------------------------------------|---------------------------------------------------------------|
| Human IL-17E Protein; His Tag                                     | Human IL-17F Protein; His Tag                                 |
| IL-23                                                             |                                                               |
| H_IL-23 Reporter 293 Cell Line                                    | H_IL-23 Reporter 293 DDX35TM Cell Line                        |
| Cynomolgus_IL-23R HEK-293 Cell Line                               | H_IL-23R HEK-293 Cell Line                                    |
| Membrane bound H_IL-23 CHO-K1 Cell Line                           |                                                               |
| Anti-IL-23R hIgG1 Antibody(5D4)                                   |                                                               |
| Biotinylated Human IL-23A&IL-12B Heterodimer Protein; His-Avi Tag | Cynomolgus IL-23A & Human IL-12B Heterodimer Protein; His Tag |
| Cynomolgus IL-23A & Mouse IL-12B Heterodimer Protein; His Tag     | Cynomolgus IL-23R Protein; hFc Tag                            |
| Human IL-23A & Mouse IL-12B Heterodimer Protein; His Tag          | Human IL-23A&IL-12B Heterodimer Protein; His Tag              |
| Human IL-23R Protein; hFc Tag                                     | Human IL-23R Protein; His Tag                                 |
| Mouse IL-23A&IL-12B Heterodimer Protein; His Tag                  |                                                               |
| 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                            | Membrane Bound H_TNFα(cleavage-resistant) CHO-K1 Cell Line    |
| Anti-H_TNFRSF1B(TNFR2) hIgG1 Antibody(UC2.3.8)                    | Anti-TNFR1 hIgG1 Antibody(Atrosab)                            |

## License Agreement:

**By purchasing and using this cell line product, the user voluntarily agrees to accept and abide by the following policies:**

- This cell line product is restricted to research use only and shall not be used for any commercial purposes.
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