

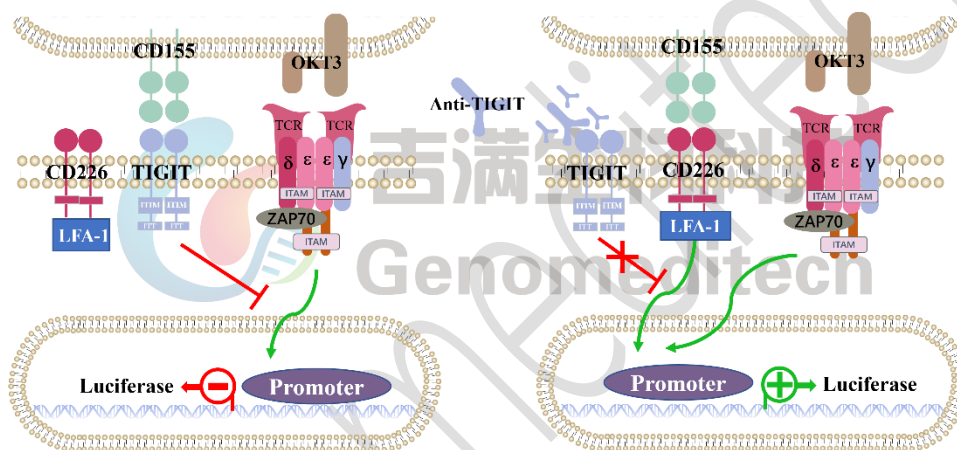
Product Sheet

H_PVR(CD155) aAPC CHO-K1 Cell Line

Catalog number: GM-C24690

Version 3.3.1.260511

The H_PVR (CD155) aAPC CHO-K1 Cell Line is a clonal, stable cell line that constitutively expresses the OKT3 and CD155 genes. This cell line is co-cultured with the H_TIGIT CD226 Reporter Jurkat Cell Line ([GM-C20072](#)). Upon binding of CD155 to TIGIT, downstream signaling pathways are activated, leading to the inhibition of luciferase expression. Blockade antibodies can interrupt this inhibitory signal transduction and restore T cell activation. The luciferase readout reflects the activation level of the signaling pathway, thereby enabling the evaluation of the in vitro effects of TIGIT-related drugs.



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+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 ₂

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.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/ GM-040404
Puromycin	Genomeditech/ GM-040401
H_TIGIT CD226 Reporter Jurkat Cell Line	Genomeditech/ GM-C20072
Anti-H_Tigit hIgG1 Antibody(Vibostolimab)	Genomeditech/ GM-24029AB
NTX-1088 (anti-PVR)	Aladdin/Ab190147
GMOne-Step 2.0 Luciferase Reporter Gene Assay Kit	Genomeditech/ GM-040513

Figures

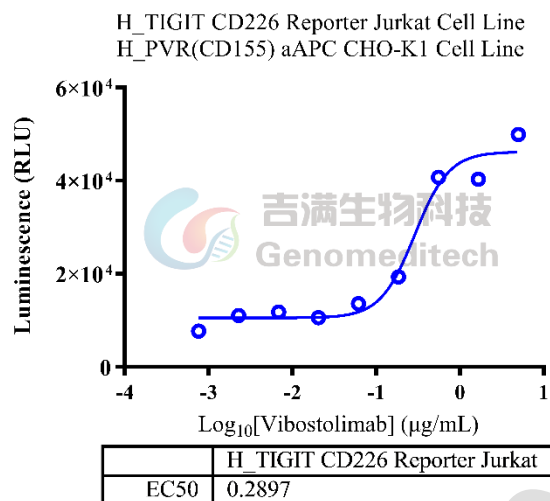


Figure 1 | Response to Anti-H_Tigit hIgG1 Antibody(Vibostolimab). The H_PVR(CD155) aAPC CHO-K1 Cell Line (Cat. GM-C24690) were seeded at a density of 1E4 cells per well in a 96-well plate and incubated overnight. The next day, serial dilutions of Anti-H_Tigit hIgG1 Antibody(Vibostolimab)(Cat. GM-24029AB) and the H_TIGIT CD226 Reporter Jurkat Cell Line(Cat. GM-C20072) at a density of 5E4 cells per well were added to the pre-seeded cells. The mixture was incubated for an additional 6 hours. Firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [5.8]. Data are presented based on drug mass concentration.

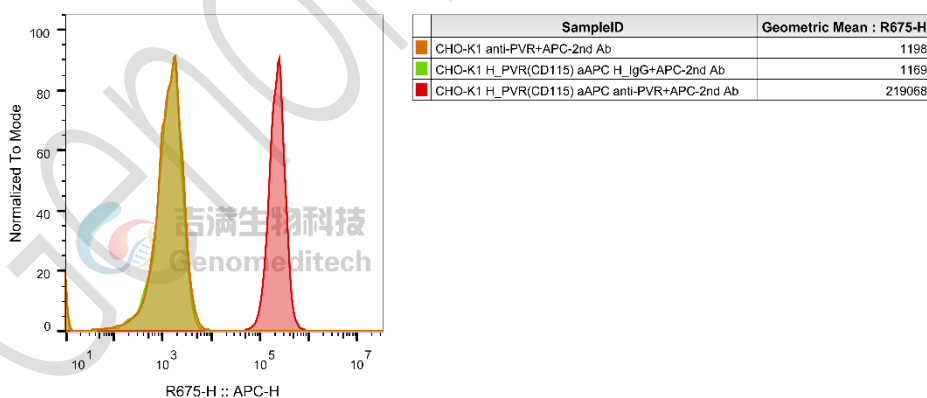


Figure 2 | H_PVR(CD155) aAPC CHO-K1 Cell Line (Cat. GM-C24690) was determined by flow cytometry using NTX-1088 (anti-PVR)(Aladdin/Ab190147).

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.
- c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately $176 \times g$ 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_2 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 $176 \times g$ for 3 minutes to collect cells.
- b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5×10^6 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 $\mu\text{g}/\text{mL}$ Blasticidin+4 $\mu\text{g}/\text{mL}$ 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.

Related Products

TIGIT:PVR:CD155:CD226	
H_TIGIT CD226 Reporter Jurkat Cell Line	Cynomolgus_TIGIT CHO-K1 Cell Line
H_CD226 CHO-K1 Cell Line	H_PVR(CD155) CHO-K1 Cell Line
H_PVR(CD155) Raji Cell Line	H_TIGIT CHO-K1 Cell Line
Anti-H_Tigit hIgG1 Antibody(Vibostolimab)	
Human TIGIT Protein; His Tag	

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.
- This product is strictly prohibited from being used in the diagnosis or treatment of human or animal diseases, and shall not be directly used in experiments involving humans.
- Users and their contractors engaged for their benefit may use this material and its derivatives only within the agreed research scope; modification of the material is not permitted, nor may it be distributed, sold, transferred, or otherwise provided to any other entity (including affiliates).
- If use beyond the above scope is required, prior written permission from Genomeditech (Shanghai) Co.,Ltd. must be obtained. For details, please contact Genomeditech (Shanghai) Co.,Ltd.