Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
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Product Sheet

IL-4/IL-13 Reporter 293 Cell Line

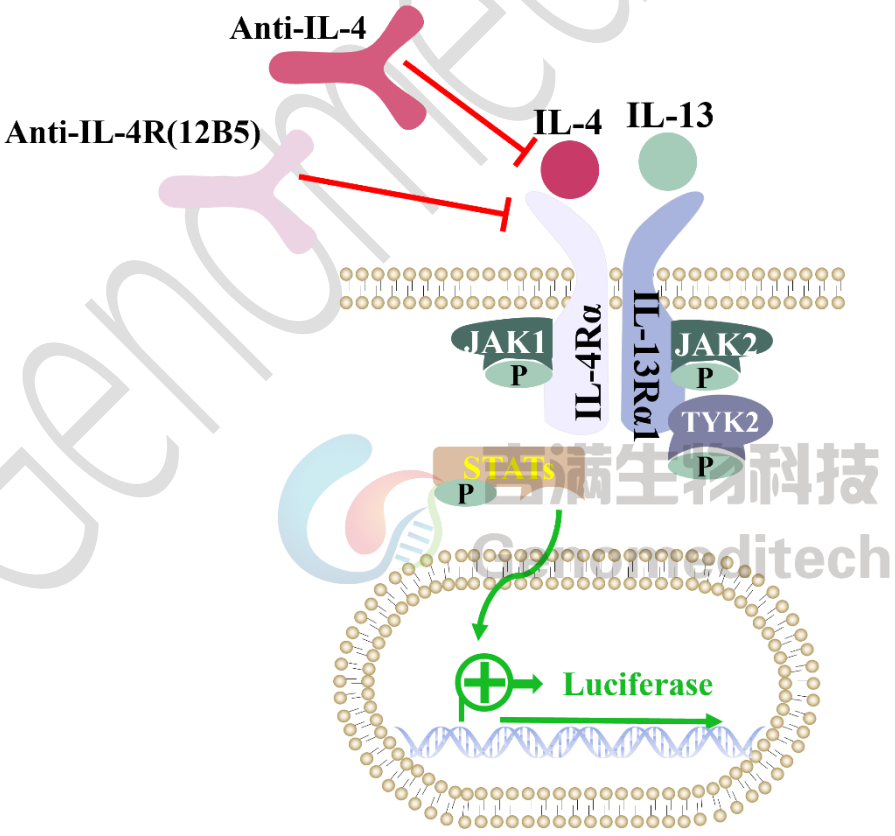
Catalog number: GM-C01511

Version 3.3.1.26.903

Interleukin-4 (IL-4) is a cytokine essential for differentiating Th0 cells into anti-inflammatory Th2 cells. Secreted mainly by Th2 cells, IL-4 promotes B cell proliferation and IgE antibody synthesis, crucial in allergies. IL-4 activates downstream signaling pathways through receptor binding.

Similarly, IL-13 is produced by T cells, including Th2 cells, and shares biological traits with IL-4. Its complex signaling involves receptors like IL-13Rα1, activating downstream pathways.

The IL-4/IL-13 Reporter 293 cell line is a clonal stable 293 cell line with signal-dependent expression of a luciferase reporter gene, and it endogenously expresses IL-4Rα and IL-13Rα1. When IL-4/IL-13 binds to the receptor, it activates downstream signaling pathways, leading to the expression of luciferase. Blockade antibodies can block this signal transmission. The measurement of luciferase activity indicates the activation level of the signaling pathway and can thus be used to evaluate the in vitro effects of a neutralizing antibody targeting IL-4 and IL-13.



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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	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+4 μg/mL Blasticidin+0.75 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.
Puromycin	Genomeditech/GM-040401
Blasticidin	Genomeditech/GM-040404
Pen/Strep	Thermo/15140-122
Fetal Bovine Serum	ExCell/FSP500
DMEM	Gibco/C11995500BT
Recombinant Human IL-4 Protein	R&D SYSTEMS/204-IL/CF
Recombinant Human IL-13 Protein	Sino Biological/10369-HNAC
Human IL-4 Antibody	R&D SYSTEMS/MAB204
Anti-IL-4R hIgG1 Antibody(12B5)	Genomeditech/GM-46268AB
GMOne-Step 2.0 Luciferase Reporter Gene Assay Kit	Genomeditech/GM-040513
APC Rabbit anti-Human CD213a1/IL-13Rα1 mAb	Abclonal/A26763
Human IL-4 Protein; His Tag	Genomeditech/GM-88042RP
Human IL-13 Protein; His Tag	Genomeditech/GM-88040RP
Cynomolgus IL-13 Protein; His Tag	Genomeditech/GM-88165RP
Mouse IL-13 Protein; His Tag	Genomeditech/GM-88166RP

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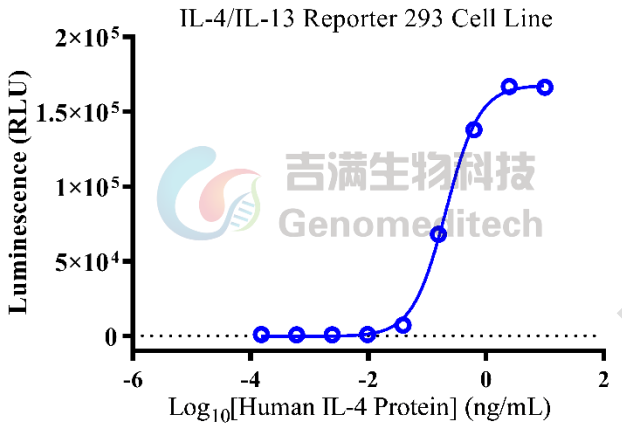
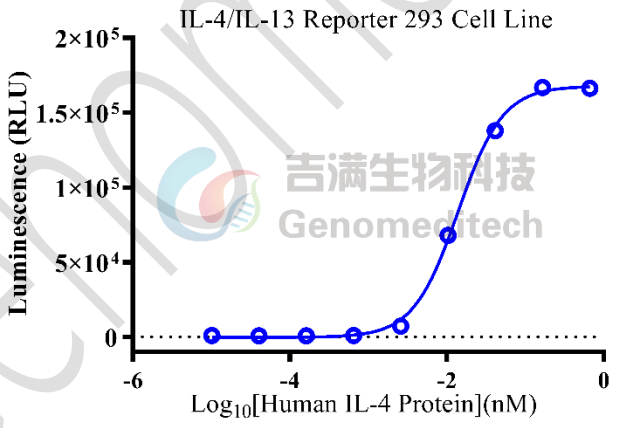
Figures



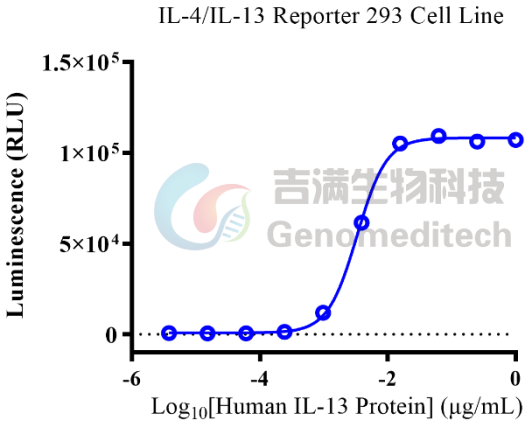
	IL-4/IL-13 Reporter 293 Cell Line
EC50	0.2095

Figure 1 | Response to Recombinant Human IL-4 Protein. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 2E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [177.9]. Data are shown by drug mass concentration.



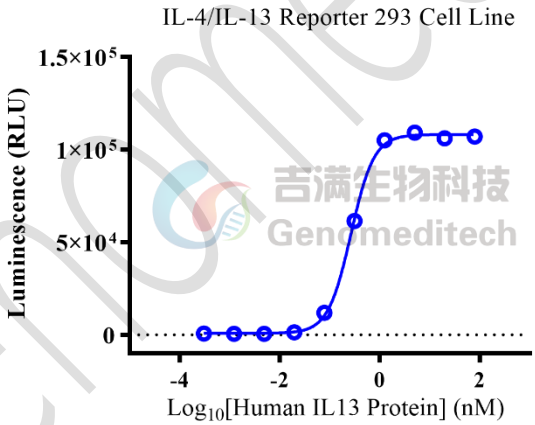
	IL-4/IL-13 Reporter 293 Cell Line
EC50	0.01397

Figure 2 | Response to Recombinant Human IL-4 Protein. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 2E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [177.9]. Data are shown by drug molar concentration.



	IL-4/IL-13 Reporter 293 Cell Line
EC50	0.003332

Figure 3 | Response to Recombinant Human IL-13 Protein. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 2E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-13 Protein (Sino Biological/10369-HNAC) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [117.1]. Data are shown by drug mass concentration.



	IL-4/IL-13 Reporter 293 Cell Line
EC50	0.2666

Figure 4 | Response to Recombinant Human IL-13 Protein. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 2E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-13 Protein (Sino Biological/10369-HNAC) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [117.1]. Data are shown by drug molar concentration.

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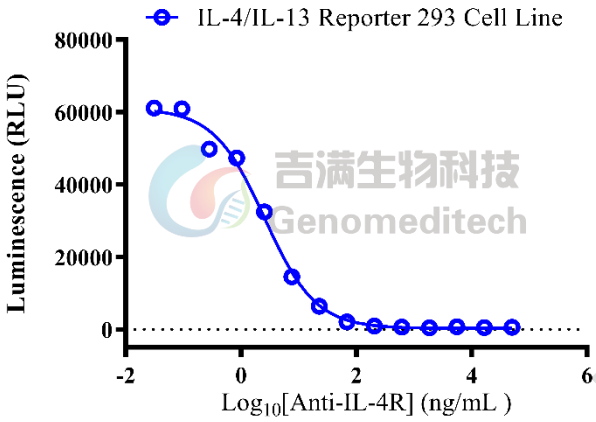
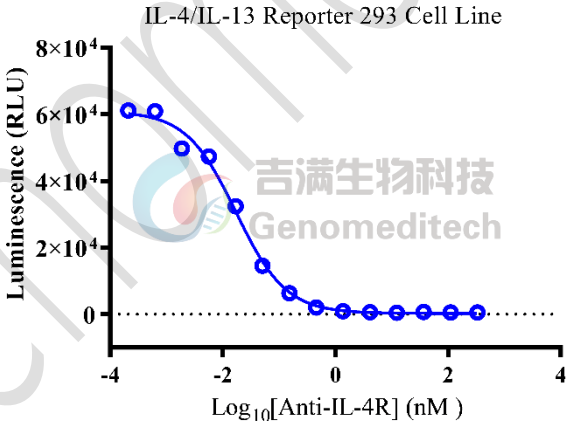


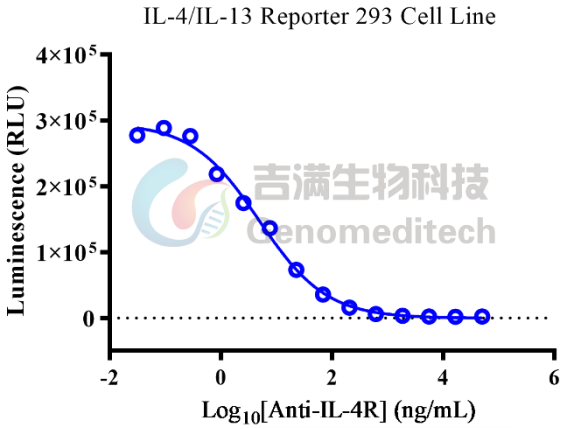
	IL-4/IL-13 Reporter 293 Cell Line
IC50	2.585

Figure 5 | Response to Anti-IL-4R hIgG1 Antibody(12B5). Serial dilutions of Anti-IL-4R hIgG1 Antibody(12B5)(Cat. GM-46268AB) were incubated with 2E4 cells/well of the IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) in a 96-well plate for 1 hour. Then, 0.2 ng/mL of Recombinant Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) was added, and the incubation continued in assay buffer (DMEM + 1% FBS + 1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The results indicated a maximum blocking fold of approximately [122.2]. Data are shown by drug mass concentration.



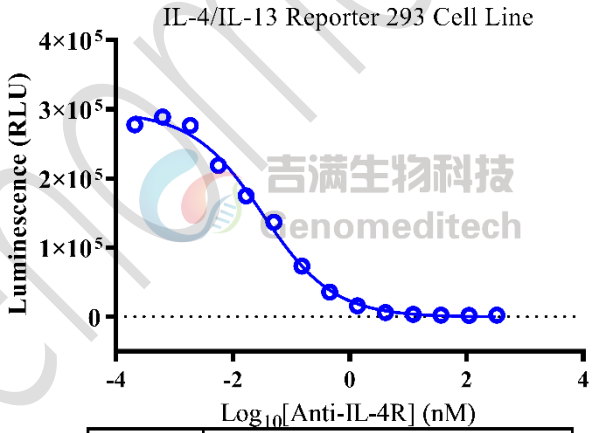
	IL-4/IL-13 Reporter 293 Cell Line
IC50	0.01723

Figure 6 | Response to Anti-IL-4R hIgG1 Antibody(12B5). Serial dilutions of Anti-IL-4R hIgG1 Antibody(12B5)(Cat. GM-46268AB) were incubated with 2E4 cells/well of the IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) in a 96-well plate for 1 hour. Then, 0.2 ng/mL of Recombinant Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) was added, and the incubation continued in assay buffer (DMEM + 1% FBS + 1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The results indicated a maximum blocking fold of approximately [122.2]. Data are shown by drug molar concentration.



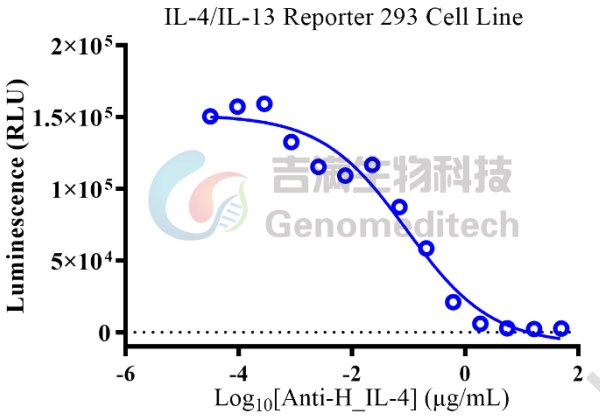
	IL-4/IL-13 Reporter 293 Cell Line
IC50	4.907

Figure 7 | Response to Anti-IL-4R hIgG1 Antibody(12B5). Serial dilutions of Anti-IL-4R hIgG1 Antibody(12B5)(Cat. GM-46268AB) were incubated with 2E4 cells/well of the IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) in a 96-well plate for 1 hour. Then, 3.3 ng/mL of Recombinant Human IL-13 Protein (Sino Biological/10369-HNAC) was added, and the incubation continued in assay buffer (DMEM + 1% FBS + 1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The results indicated a maximum blocking fold of approximately [130.0]. Data are shown by drug mass concentration.



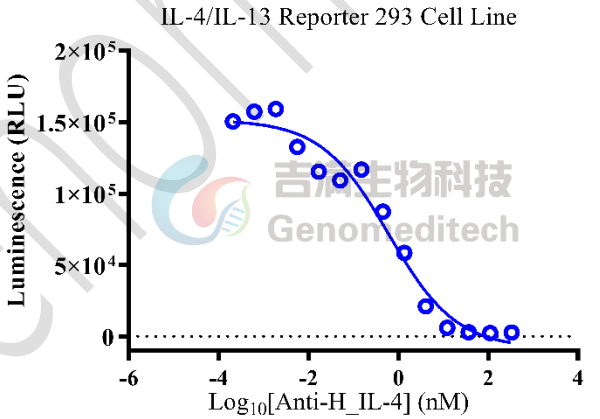
	IL-4/IL-13 Reporter 293 Cell Line
IC50	0.03272

Figure 8 | Response to Anti-IL-4R hIgG1 Antibody(12B5). Serial dilutions of Anti-IL-4R hIgG1 Antibody(12B5)(Cat. GM-46268AB) were incubated with 2E4 cells/well of the IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) in a 96-well plate for 1 hour. Then, 3.3 ng/mL of Recombinant Human IL-13 Protein (Sino Biological/10369-HNAC) was added, and the incubation continued in assay buffer (DMEM + 1% FBS + 1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The results indicated a maximum blocking fold of approximately [130.0]. Data are shown by drug molar concentration.



	IL-4/IL-13 Reporter 293 Cell Line
IC50	0.09205

Figure 9 | Response to Human IL-4 Antibody. Begin by preparing the IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a density of 1.5E4 cells/well in a 96-well format. The serial dilutions of Human IL-4 Antibody (R&D SYSTEMS/MAB204) were incubated with 0.2 ng/mL of Recombinant Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) for 1 hour. After pre-incubation, the mixture was added to the IL-4/IL-13 Reporter 293 Cell Line and incubated for 6 hours in assay buffer (DMEM+1% FBS+1% P.S). The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The results indicated a maximum blocking fold of approximately [66.3]. Data are shown by drug mass concentration.



	IL-4/IL-13 Reporter 293 Cell Line
IC50	0.6137

Figure 10 | Response to Human IL-4 Antibody. Begin by preparing the IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a density of 1.5E4 cells/well in a 96-well format. The serial dilutions of Human IL-4 Antibody (R&D SYSTEMS/MAB204) were incubated with 0.2 ng/mL of Recombinant Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) for 1 hour. After pre-incubation, the mixture was added to the IL-4/IL-13 Reporter 293 Cell Line and incubated for 6 hours in assay buffer (DMEM+1% FBS+1% P.S). The firefly luciferase activity was measured using

the Luciferase Reporter Assay Kit (Genomeditech). The results indicated a maximum blocking fold of approximately [66.3]. Data are shown by drug molar concentration.

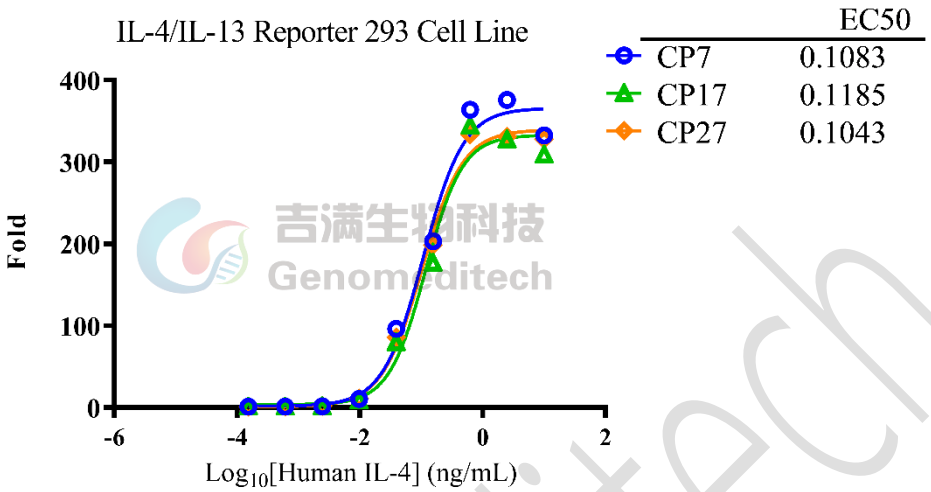


Figure 11 | Response to Recombinant Human IL-4 Protein. The passage 7,17 and 27 of IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-4 Protein (R&D SYSTEMS/204-IL/CF) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). Data are shown by drug mass concentration.

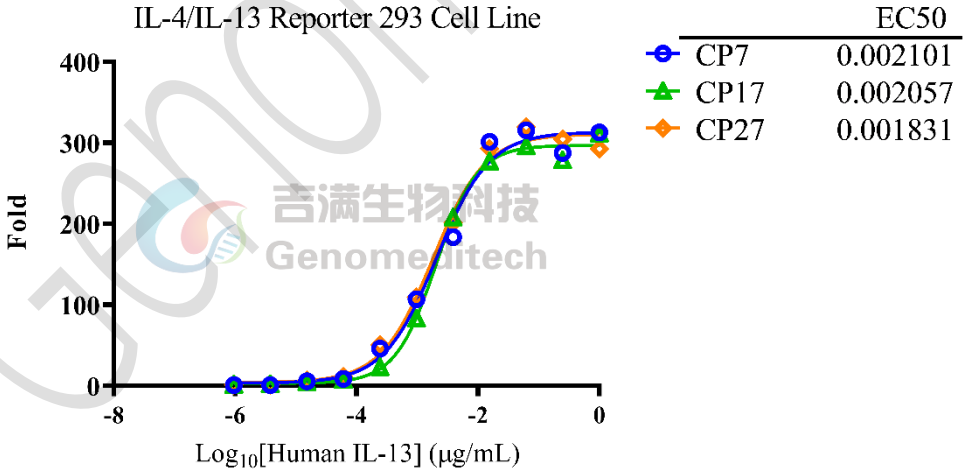
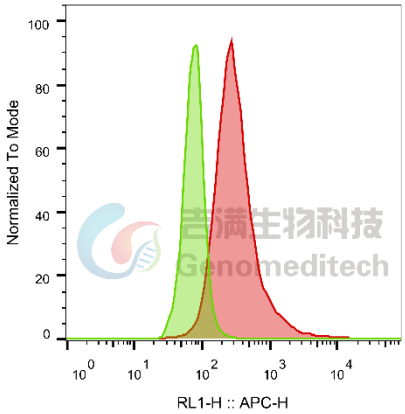
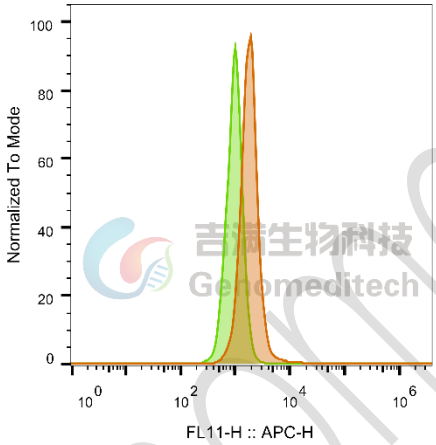


Figure 12 | Response to Recombinant Human IL-13 Protein. The passage 7,17 and 27 of IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-13 Protein (Sino Biological/10369-HNAC) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). Data are shown by drug mass concentration.



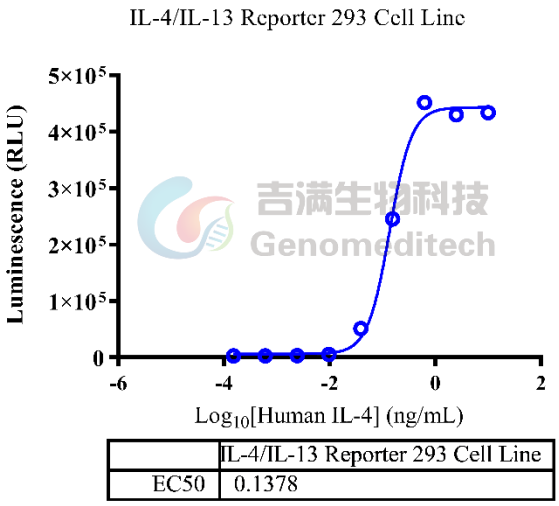
SampleID	Geometric Mean : RL1-H
IL-4 IL-13 Reporter 293 H_IgG+APC-2nd Ab	76.4
IL-4 IL-13 Reporter 293 anti-IL-4R+APC-2nd Ab	318

Figure 13 | IL-4/IL-13 Reporter 293 Cell Line was determined by flow cytometry using Anti-IL-4R hIgG1 Antibody(12B5) (Cat. GM-46268AB).



SampleID	Geometric Mean : FL11-H
HEK-293 anti-IL-13Ra1+APC-2nd	1860
HEK-293 H_IgG+APC-2nd	976

Figure 14 | HEK-293 Cell Line was determined by flow cytometry using APC Rabbit anti-Human CD213a1/IL-13Rα1 mAb (ABclonal/A26763).



	IL-4/IL-13 Reporter 293 Cell Line
EC50	0.1378

Figure 15 | Response to Human IL-4 Protein; His Tag. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-4 Protein; His Tag (Cat. GM-88042RP) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [173.8]. Data are shown by drug mass concentration.

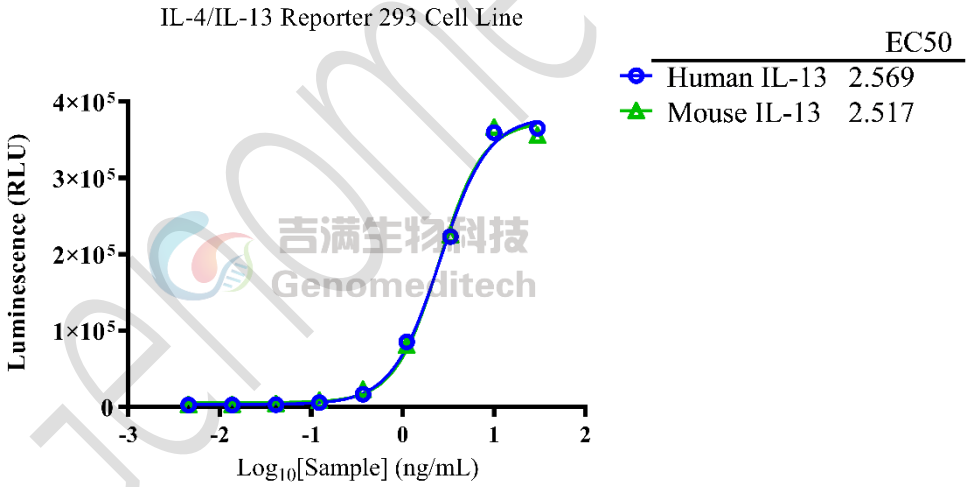


Figure 16 | Response to Human IL-13 Protein and Mouse IL-13 Protein. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Human IL-13 Protein; His Tag (Cat. GM-88040RP) and Mouse IL-13 Protein; His Tag (Cat. GM-88166RP) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [192.0] and [147.3]. Data are shown by drug mass concentration.

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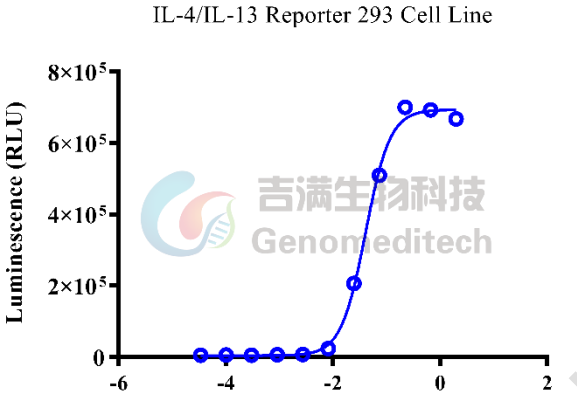

	IL-4/IL-13 Reporter 293 Cell Line
EC50	0.04082

Figure 17 | Response to Cynomolgus IL-13 Protein. The IL-4/IL-13 Reporter 293 Cell Line (Cat. GM-C01511) at a concentration of 1.5E4 cells/well (96-well format) was stimulated with serial dilutions of Cynomolgus IL-13 Protein; His Tag (Cat. GM-88165RP) in assay buffer (DMEM+1% FBS+1% P.S) for 7 hours. The firefly luciferase activity was measured using the Luciferase Reporter Assay Kit (Genomeditech). The maximum induction fold was approximately [126.5]. Data are shown by drug mass concentration.

Cell Recovery

Recovery Medium: DMEM+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 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_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 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: DMEM+10% FBS+1% P.S+4 μg/mL Blasticidin+0.75 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) Subculturing is necessary when the cell density reaches 80%. It is recommended to perform subculturing at a ratio of 1:3 to 1:4 every 2-3 days. Ensure that the density does not exceed 80%, as overcrowding can lead to reduced viability due to compression.

b) Remove and discard culture medium.

c) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.

d) 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 30 to 60 seconds at 37°C).

e) 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.

f) Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.

g) After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.

h) Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:3 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) Upon initial thawing, a higher number of dead cells is observed, which is a normal phenomenon. Significant improvement is seen after adaptation. Once the cells reach a stable state, the number of dead cells decreases after subculturing and the cell growth rate becomes stable.

b) Ensure that the cell density does not exceed 80%, as overcrowding may lead to reduced viability due to compression.

Related Products

OX40:OX40L	
H_OX40 Reporter Cell Line	H_OX40 Reporter DDX35TM Cell Line
Cynomolgus_OX40 HEK-293 Cell Line	Cynomolgus_OX40L CHO-K1 Cell Line
H_OX40 CHO-K1 Cell Line	H_OX40L CHO-K1 Cell Line
H_OX40L HEK-293 Cell Line	Mouse_OX40L CHO-K1 Cell Line
Rat_OX40L CHO-K1 Cell Line	

Anti-H_OX40 hIgG2 Antibody(Ivuxolimab)	Anti-OX40L hIgG1 Reference Antibody(Oxebio)
Anti-OX40L hIgG4 Antibody(Amlitelimab)	Anti-OX40L hIgG4 Reference Antibody(Amlbio)
Biotinylated Human OX40L Protein; His-Avi Tag	Cynomolgus OX40 Protein; His Tag
Cynomolgus OX40L Protein; His Tag	Cynomolgus OX40L Protein; mFc Tag
Human OX40 Protein; hFc Tag	Human OX40 Protein; His Tag
Human OX40L Protein; His Tag	Human OX40L Protein; mFc Tag
IL-4/IL-13	
IL-4 Reporter Cell Line	IL-4/IL-13 Reporter 293 DDX35TM Cell Line
Cynomolgus_IL4R CHO-K1 Cell Line	H_IL4R CHO-K1 Cell Line
H_IL4R CHO-K1 Cell Line (Low Expression)	H_IL4R HEK-293 Cell Line
Mouse_IL4R CHO-K1 Cell Line	
Anti-IL13 hIgG4 Reference Antibody (Lebribio)	Anti-IL-4R hIgG1 Antibody(12B5)
Anti-IL4R hIgG4 Antibody(Dupilumab)	Anti-IL4R hIgG4 Reference Antibody (Dupbio)
Anti-IL-4R×IL31 hIgG4 Reference Antibody (PRO2198)	Anti-Mouse IL-4RA mIgG1 Antibody
Biotinylated Human IL-4R alpha Protein; Avi-His Tag	Cynomolgus IL-13 Protein; His Tag
Cynomolgus IL-13RA1 Protein; His Tag	Cynomolgus IL-4 Protein; His Tag
Cynomolgus IL-4R alpha Protein; His Tag	Human IL-13 Protein; His Tag
Human IL-13RA1 Protein; hFc Tag	Human IL-13RA1 Protein; His Tag
Human IL-4 Protein; His Tag	Human IL-4R alpha Protein; hFc Tag
Human IL-4R alpha Protein; His Tag	Human IL-4R alpha Protein; mFc Tag
Mouse IL-13 Protein; His Tag	Mouse IL-4R alpha Protein; His Tag
Rat IL-4R alpha Protein; His Tag	
IL-31	
Cynomolgus_IL-31RA OSMR Reporter Baf3 Cell Line	H_IL-31 Reporter Cell Line
H_IL-31 Reporter DDX35TM Cell Line	Cynomolgus_IL31RA CHO-K1 Cell Line
H_IL31RA CHO-K1 Cell Line	H_IL31RA HEK-293 Cell Line
H_IL-31RA OSMR Baf3 Cell Line	H_IL-31RA OSMR CHO-K1 Cell Line
Anti-IL31 hIgG1 Antibody(mAb33)	Anti-IL-31 hIgG4 Reference Antibody (BMS-981164)
Anti-IL31RA hIgG1 Antibody(NA633)	Anti-IL31RA hIgG2 Antibody(Nemolizumab)
Anti-IL31RA hIgG2 Reference Antibody (Nemobio)	Anti-IL-4R×IL31 hIgG4 Reference Antibody (PRO2198)
Anti-OSMR hIgG4 Antibody(Vixarelimab)	Anti-OSMR hIgG4 Reference Antibody (Vixabio)
Cynomolgus IL-31 Protein; His Tag	Cynomolgus IL-31RA Protein; hFc Tag
Human IL-31 Protein; hFc Tag	Human IL-31 Protein; His Tag
Human IL-31RA Protein; hFc Tag	
TSLP:TSLPR	
H_TSLP Reporter 293 Cell Line	H_TSLP Reporter Cell Line
H_TSLPR CHO-K1 Cell Line	H_TSLPR IL7RA BaF3 Cell Line
Anti-H_TSLPR hIgG1 Antibody	Anti-TSLP hIgG2 Antibody(Tezepelumab)
Anti-TSLP hIgG2 Reference Antibody (Tezbio)	
Biotinylated Human TSLP Protein; His-Avi Tag	Cynomolgus TSLP Protein; His Tag

Cynomolgus TSLPR Protein; His Tag	Human TSLP Protein; hFc Tag
Human TSLP Protein; His Tag	Human TSLPR Protein; hFc Tag
Human TSLPR Protein; His Tag	
IL-5	
H_IL-5 Reporter 293 Cell Line	Cynomolgus_IL-5RA HEK-293 Cell Line
H_IL-5RA CHO-K1 Cell Line	H_IL-5RA HEK-293 Cell Line
Anti-IL5 hIgG4 Antibody(Reslizumab)	Anti-IL-5R hIgG1 Antibody(Benralizumab)
Cynomolgus IL-5 Protein; His Tag	Human IL-5 Protein; hFc Tag
Human IL-5 Protein; His Tag	
MRGPRX2	
H_MRGPRX2 Gq Reporter CHO-K1 Cell Line	H_MRGPRX2 Gqi5 Reporter CHO-K1 Cell Line
Tango-H_MRGPRX2 CHO-K1 Cell Line	Cynomolgus_MRGPRX2 CHO-K1 Cell Line
Cynomolgus_MRGPRX2 HEK-293 Cell Line	Flag-Mouse_Mrgprb2 CHO-K1 Cell Line
Flag-Rat_Mrgprb3 HEK-293 Cell Line	H_MRGPRX2 CHO-K1 Cell Line
H_MRGPRX2 HEK-293 Cell Line	H_MRGPRX2 HMC-1 Cell Line
H_MRGPRX2 RBL-2H3 Cell Line	

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