

# Product Sheet

## H\_IL4R HEK-293 Cell Line

Catalog number: GM-C01709

Version 3.3.1.260109

<b>Description</b>	H_IL4R HEK-293 Cell Line is a clonal stable HEK-293 cell line that constitutively expresses the human IL4R gene, 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_IL4R
<b>Gene ID/Uniprot ID</b>	P24394-1
<b>Host Cell</b>	HEK-293
<b>Recovery Medium</b>	DMEM+10% FBS+1% P.S
<b>Growth medium</b>	DMEM+10% FBS+1% P.S+0.75 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.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/ <a href="#">GM-040401</a>
Anti-IL4R hIgG4 Reference Antibody (Dupbio)	Genomeditech/ <a href="#">GM-87496MAB</a>

## Figures

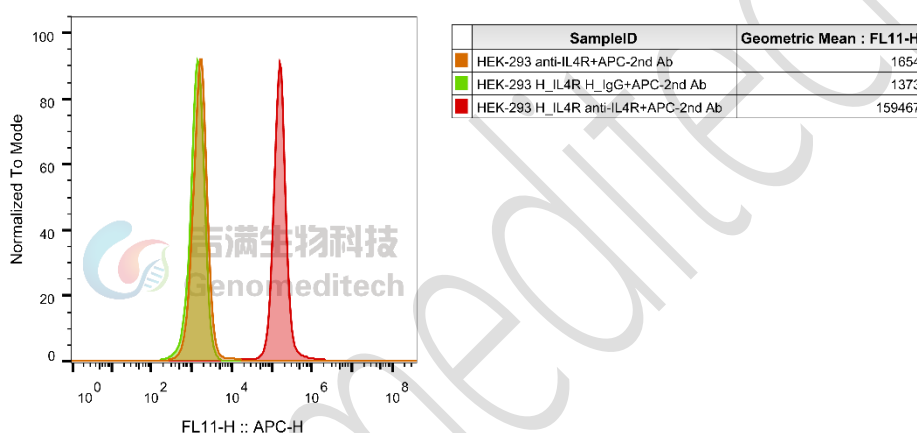


Figure 1 | H\_IL4R HEK-293 Cell Line (Cat. GM-C01709) was determined by flow cytometry using Anti-IL4R hIgG4 Reference Antibody (Dupbio) (Cat. [GM-87496MAB](#)).

## 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.

- 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.

- 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

- 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.
- Aliquot 1 mL into each vial.
- 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+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.

- 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.
- Remove and discard culture medium.
- Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
- 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).
- 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.
- Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
- After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
- 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

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

## Sequence

### IL4R P24394-1

MGWLCSGLLPVSVCLVLLQVASSGNMKVLQEPTCVSDYMSISTCEWKMNPTNCSTELRLLYQLVFLLESEA  
HTCIPENNGGAGCVCHLLMDDVVSADNYTLDLWAGQQLWKGSFKPSEHVVKPRAPGNLTVHTNVSDTLLL  
TWSNPYPDPNYLYNHLTYAVNIWSENDPADFRIYNTYLEPSLRIAASTLKSGISYRVRVRAWAQCYNTTWS  
EWSPTKWHNSYREPFEQHLLLGVSVSCIVILAVCLLCYVSITKIKKEWWDQIPNPARSRLVAIIQDAQGSQW  
EKRSRGQEPAPKCPHWKNCLTKLLPCFLEHNMKRDEDPHKA AKEMPFQSGSKSAWCPVEISKTVLWPESISV  
VRCVELFEAPVECEEEEEVEEEKGSFCASPESSRDDFQEGREGIVARLTESLFLDLLGEENGFCQQDMGESC  
LLPPSGSTSAHMPWDEFPSAGPKEAPPWGKEQPLHLEPSPPASPTQSPDNLTCTETPLVIAGNPAYRSFSNSLS  
QSPCPRELGPDPLLARHLEEEPEMPCVPQLSEPTTVPQPEPETWEQILRRNVLQHGA AAPVSAPTSGYQEF  
VHAVEQGGTQASAVVGLGPPGEAGYKAFSSLLASSAVSPEKCGFGASSGEEGYKPFQDLIPGCPGDPAPVVPV  
LFTFGLDREPPRSPQSSHLPSSSPEHLGLEPGEKVEDMPKPPLPQEATDPLVDSLGS GIVYSALTCHLCGHLK  
QCHGQEDGGQTPVMASPCCGCCCGDRSSPTTPLRAPDPSPGGVPLEASLCPASLAPSGISEKSKSSSFHPAP  
GNAQSSSQTPKIVNFVSVGPTYMRVS

## Related Products

OX40:OX40L	
<a href="#">H_OX40 Reporter Cell Line</a>	<a href="#">H_OX40 Reporter DDX35TM Cell Line</a>
<a href="#">Cynomolgus_OX40L CHO-K1 Cell Line</a>	<a href="#">H_OX40 CHO-K1 Cell Line</a>
<a href="#">H_OX40L CHO-K1 Cell Line</a>	<a href="#">H_OX40L HEK-293 Cell Line</a>
<a href="#">Anti-H_OX40 hIgG2 Antibody(Ivuxolimab)</a>	<a href="#">Anti-OX40L hIgG1 Reference Antibody(Oxebio)</a>
<a href="#">Anti-OX40L hIgG4 Antibody(Amlitelimab)</a>	<a href="#">Anti-OX40L hIgG4 Reference Antibody(Amlbio)</a>
<a href="#">Biotinylated Human OX40L Protein; His-Avi Tag</a>	<a href="#">Cynomolgus OX40 Protein; His Tag</a>
<a href="#">Cynomolgus OX40L Protein; His Tag</a>	<a href="#">Cynomolgus OX40L Protein; mFc Tag</a>
<a href="#">Human OX40 Protein; His Tag</a>	<a href="#">Human OX40L Protein; His Tag</a>
<a href="#">Human OX40L Protein; mFc Tag</a>	
IL-4/IL-13	
<a href="#">IL-4 Reporter Cell Line</a>	<a href="#">IL-4/IL-13 Reporter 293 Cell Line</a>
<a href="#">IL-4/IL-13 Reporter 293 DDX35TM Cell Line</a>	<a href="#">Cynomolgus_IL4R CHO-K1 Cell Line</a>
<a href="#">H_IL4R CHO-K1 Cell Line</a>	<a href="#">Mouse_IL4R CHO-K1 Cell Line</a>
<a href="#">Anti-IL-4R hIgG1 Antibody(12B5)</a>	<a href="#">Anti-IL4R hIgG4 Antibody(Dupilumab)</a>
<a href="#">Anti-IL4R hIgG4 Reference Antibody (Dupbio)</a>	
<a href="#">Biotinylated Human IL-4R alpha Protein; Avi-His Tag</a>	<a href="#">Cynomolgus IL-13 Protein; His Tag</a>
<a href="#">Cynomolgus IL-4R alpha Protein; His Tag</a>	<a href="#">Human IL-13 Protein; His Tag</a>
<a href="#">Human IL-13RA1 Protein; His Tag</a>	<a href="#">Human IL-4 Protein; His Tag</a>
<a href="#">Human IL-4R alpha Protein; hFc Tag</a>	<a href="#">Human IL-4R alpha Protein; His Tag</a>
<a href="#">Human IL-4R alpha Protein; mFc Tag</a>	<a href="#">Mouse IL-13 Protein; His Tag</a>
<a href="#">Mouse IL-4R alpha Protein; His Tag</a>	<a href="#">Rat IL-4R alpha Protein; His Tag</a>
IL-31	
<a href="#">Cynomolgus_IL-31RA OSMR Reporter Baf3 Cell Line</a>	<a href="#">H_IL-31 Reporter Cell Line</a>

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
Anti-IL31 hIgG1 Antibody(mAb33)	Anti-IL31RA hIgG1 Antibody(NA633)
Anti-IL31RA hIgG2 Antibody(Nemolizumab)	Anti-OSMR hIgG4 Antibody(Vixarelimab)
Cynomolgus IL-31 Protein; His 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(Tezepeelumab)
Anti-TSLP hIgG2 Reference Antibody (Tezbio)	
Biotinylated Human TSLP Protein; His-Avi Tag	Cynomolgus TSLP Protein; His Tag
Human TSLP Protein; hFc Tag	Human TSLP Protein; His Tag
Human TSLPR Protein; His Tag	
IL-5	
H_IL-5 Reporter 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)
MRGPRX2	
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

## License Agreement:

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