

Product Sheet

H_IL-31RA OSMR CHO-K1 Cell Line

Catalog number: GM-C29779

Version 3.3.1.260407

Description	H_IL-31RA OSMR CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively expresses the human_IL-31RA and human_OSMR gene, 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_IL-31RA & Human_OSMR
Gene ID/Uniprot ID	Q8NI17-1 & Q99650-1
Host Cell	CHO-K1
Recovery Medium	F12K+10% FBS+1% P.S
Growth medium	F12K+10% FBS+1% P.S+200 µg/mL G418+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
G418	Genomeditech/ GM-040402
Anti-IL31RA hIgG2 Antibody(Nemolizumab)	Genomeditech/ GM-50871AB
Anti-OSMR hIgG4 Antibody(Vixarelimab)	Genomeditech/ GM-50874AB

Figures

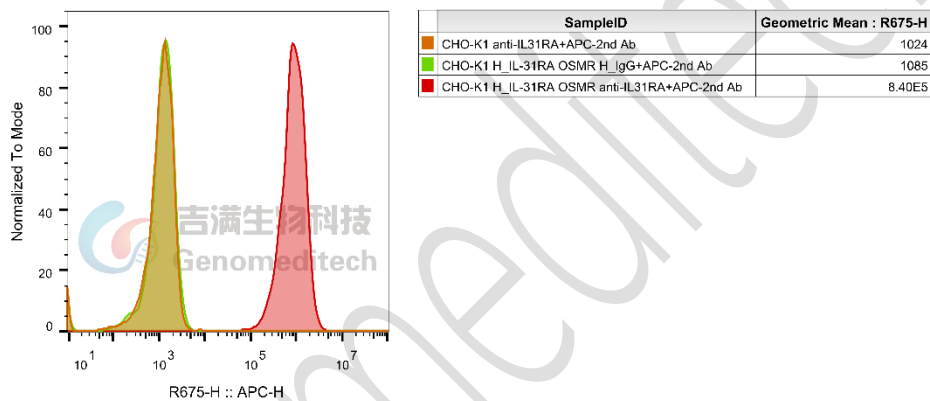


Figure 1 | H_IL-31RA OSMR CHO-K1 Cell Line (Cat. GM-C29779) was determined by flow cytometry using Anti-IL31RA hIgG2 Antibody(Nemolizumab) (Cat. [GM-50871AB](#)).

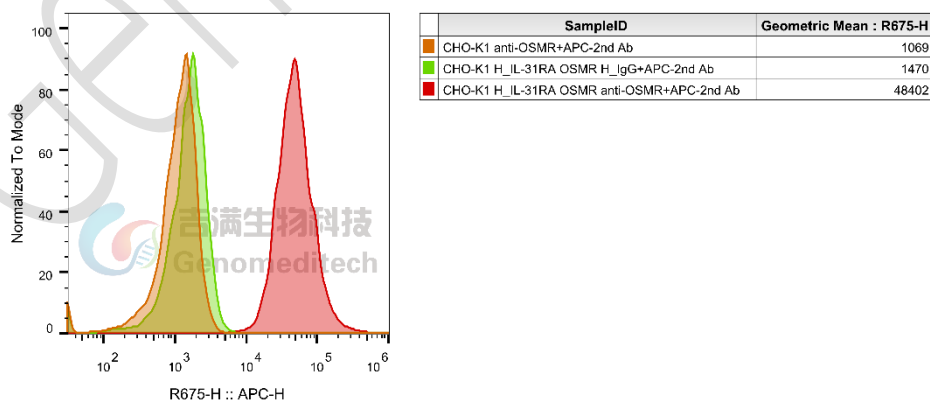


Figure 2 | H_IL-31RA OSMR CHO-K1 Cell Line (Cat. GM-C29779) was determined by flow cytometry using Anti-OSMR hIgG4 Antibody(Vixarelimab) (Cat. [GM-50874AB](#)).

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+200 $\mu\text{g}/\text{mL}$ G418+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.

Sequence

IL31RA Q8NI17-1 2002-10-01 v1

MMWTWALWMLPSLCKFSLAALPAKPENISCVYYRKNLTCTWSPGKETSYTQYTVKRTYAFGEKHDNCTT
NSSTSENRASCSFFLPRITIPDNYTIEVEAENGDGVKSHMTYWRLENIKTEPPKIFRVKPVLGKRMQIEWIK
PELAPVSSDLKYTLRFRTVNSTSWMEVNFANRDKDNQTYNLTGLQPFTEYVIALRCAVKESKFWSDWSQE
KMGMTREEEAPCGLELWRVLPKPAEADGRRPVRLWKKARGAPVLEKTLGYNIWYYPESNTNLTETMNTTNQ
QLELHLGGESFWVSMISYNSLGKSPVATLRIPAIQEKSFQCIEVMQACVAEDQLVVKWQSSALDVNTWMIEW
FPDVDSEPTTLSWESVSQATNWTIQQDKLKPFWCYNISVYPMHDKVGEPIYQAYAKEGVPSEGPETKVENI
GVKTVTITWKEIPKSERKGIICNYTIFYQAEKGGKFSKTVNSSILQYGLLESLKRKTSYIVQVMASSTAGGTNGT
SINFKTLFSVFEIILITSLIGGGLLILILTVAYGLKKNKLTLCWPTVNPAAESSIATWHGDDFKDKLNLKES
DDSVNTEDRILKPCSTPSDKLVIDKLVVNFVGNLQEIFTDEARTGQENNLGGEKNGYVTCFPRPDCPLGKSFE
ELPVSPEIPRKSQYLRSRMPEGTRPEAKEQLLFSGQSLVPDHLCEGAPNPYLKNSVTAREFLVSEKLPHTK
GEV

OSMR Q99650-1 1997-05-01 v1

MALFAVFQTTFFLTLLSLRQSEVLAERLPLTPVSLKVSTNSTRQSLHLQWTVHNLPHYHQLKMFVQIQISRI
ETSNVIWVGNYSTTVKWNQVLHWSWESEPLECATHFVRIKSLVDDAKFPEPNFWSNWSWEEVSVQDSTG
QDILFVFPKDKLVEEGTNTVICYVSRNIQNNVSCYLEGKQIHGEQLDPHVTAFLNLSVPFIRNKGTNIYCEASQ
GNVSEGMKGIVLFSKVLLEPKDFSCETEDFKTLHCTWDPGTDALGWSKQPSQSYTLFESFSGEKKLCTHK
NWCNWQITQDSQETYNFLIAENYLRKRSVNLFNLTFRVYLMNPFVNFENVNATNAIMTWKVHSIRNNFT
YLCQIELHGEGKMMQYNVSIKVNGEYFLSELEPATEYMARVRCADASHFWKWSEWSGQNFITLEAAPSEAP
DVWRIVSLEPGNHTVTLFWKPLSKLHANGKILFYNNVVENLDKPSSELHSIPAPANSTKLILDRCSYQICVIA
NNSVGASPASVIVISADPENKEVEEERAGTEGGFSLSWKPQPGDVIGYVVDWCDHTQDVLGDFQWKNVGP
NTTSTVISTDAFRPGVRYDFRIYGLSTKRIACLEKKTGYSQELAPSDNPHVLVDTLTSFSFTLSWKDYSTESQ
PGFIQGYHVYLKSKARQCHPRFEKAVLSDGSECCKYKIDNPEEKALIVDNLKPESFYEFFITPPTSAGEGPSATF
TKVTTTPDEHSSMLIHILLPMVFCVLLIMVMCYLKSQWIKETCYPDIPDPYKSSILSLIKFKENPHLIIMNVSDCIP
DAIEVVSKPEGTKIQFLGTRKSLTETELTKPNYLYLLPTEKNHSGPGPCICFENLTYNQAASDSGSCGHVPVSP
KAPSMGLMTSPENVLKALEKNYMNSLGEIPAGETSLNYVSQLASPMFGDKDSLPTNPVEAPHCSEYKMQM
AVSLRLALPPPTENSSLSITLLDPGEHYC

Related Products

OX40:OX40L	
H_OX40 Reporter Cell Line	H_OX40 Reporter DDX35TM 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	
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; 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 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-4R alpha Protein; His Tag	Human IL-13 Protein; His 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	
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	Human IL-31 Protein; His Tag
Human IL-31RA Protein; hFc 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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