Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

H_CD24 HEK-293 Cell Line

Catalog number: GM-C03872

Version 3.3.1.250721

Description	H_CD24 HEK-293 Cell Line is a clonal stable HEK-293 cell line that constitutively expresses the human CD24 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_CD24
Gene ID/Uniprot ID	P25063-1
Host Cell	HEK-293

Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+0.75 μg/mL Puromycin
Note	Cells should be cultured using gibco/C11995500BT medium or Growth medium from Genomeditech. The serum should be Cegrogen biotech/A0500-3010 or sourced from Gibco.
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.

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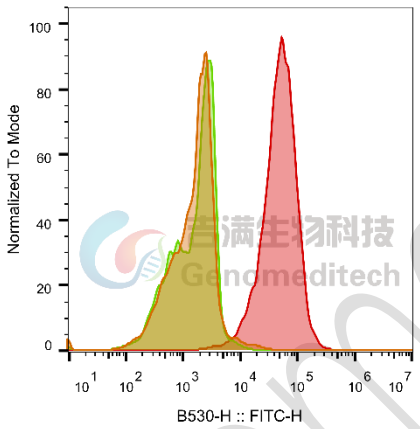
Materials

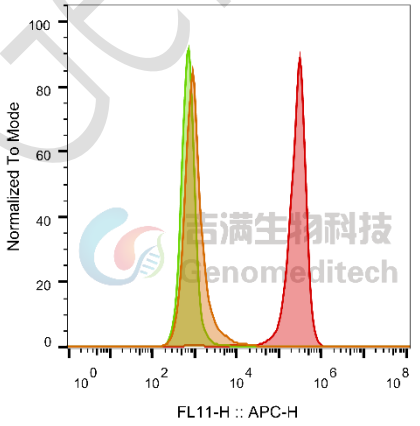
Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-H_CD24 hIgG Antibody	In house/
Anti-CD24 hIgG1 Antibody(LM-109)	Genomeditech/GM-82520AB

Figures



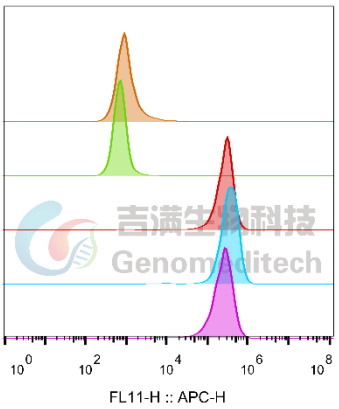
SampleID	Geometric Mean : B530-H
293 anti-H_CD24+FITC-2nd Ab	1479
293 H_CD24 anti-H_IgG+FITC-2nd Ab	1509
293 H_CD24 anti-H_CD24+FITC-2nd Ab	47337

Figure 1 | H_CD24 HEK-293 Cell Line (Cat. GM-C03872) was determined by flow cytometry using Anti-H_CD24 hIgG Antibody (In house).



SampleID	Geometric Mean : FL11-H
HEK-293 anti-CD24+APC-2nd Ab	1049
HEK-293 H_CD24 H_IgG+APC-2nd Ab	750
HEK-293 H_CD24 anti-CD24+APC-2nd Ab	242884

Figure 2 | H_CD24 HEK-293 Cell Line (Cat. GM-C03872) was determined by flow cytometry using Anti-CD24 hIgG1 Antibody(LM-109) (Cat. GM-82520AB).



	SampleID	Geometric Mean : FL11-H
	HEK-293 anti-CD24+APC-2nd Ab	1049
	HEK-293 H_CD24 H_IgG+APC-2nd Ab	750
	HEK-293 H_CD24 anti-CD24+APC-2nd Ab CP7	242884
	HEK-293 H_CD24 anti-CD24+APC-2nd Ab CP17	328770
	HEK-293 H_CD24 anti-CD24+APC-2nd Ab CP27	221681

Figure 3 | The passage stability of the H_CD24 HEK-293 Cell Line (Cat. GM-C03872) was determined by flow cytometry using Anti-CD24 hIgG1 Antibody(LM-109) (Cat. GM-82520AB).

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+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) 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 30 to 60 seconds 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 1:3 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) Upon initial revival, a higher number of dead cells and poor adherence are observed, which is normal. Adherence typically recovers within 2 - 3 days. After 2 - 3 passages, the proportion of adherent cells increases, and the cells begin to spread normally.

b) After each passage, there may be 5-10% dead cells; however, as the number of passages increases, the recovery rate accelerates, the proportion of dead cells decreases, and the cell growth rate stabilizes.

c) It is recommended to retain cell images after revival and during each observation to assist in assessing cell status. In case of abnormalities, promptly communicate with Geomeditech sales.

Sequence

CD24 P25063-1

MGRAMVARLGLGLLLLALLLPTQIYSSETTTGTSSNSSQSTSNSGLAPNPTNATTKAAGGALQSTASLFVVSL SLLHLYS*

Related Products

CD24-Siglec10	
H_CD24 CHO-K1 Cell Line	H_CD24 MC38 Cell Line
H_Siglec10 CHO-K1 Cell Line	MCF-7(CD24-Positive) Luciferase Cell Line
SIGLEC15	
Cynomolgus_SIGLEC15 CHO-K1 Cell Line	H_SIGLEC15 CHO-K1 Cell Line

H_SIGLEC15 HEK-293 Cell Line	H_SIGLEC15 MC38 Cell Line
H_SIGLEC15 U2OS Cell Line	Mouse_SIGLEC15 CHO-K1 Cell Line
Anti-Siglec15 mIgG2a Antibody(5G12)	
SIGLEC9	
Cynomolgus_SIGLEC9 CHO-K1 Cell Line	H_SIGLEC9 CHO-K1 Cell Line
H_SIGLEC9 HEK-293 Cell Line	
Anti-siglec9 mIgG1 Antibody(2D4)	
SIGLEC8	
H_SIGLEC8 CHO-K1 Cell Line	H_SIGLEC8 HEK-293 Cell Line
Olive Baboon_SIGLEC8 CHO-K1 Cell Line	
Anti-H_SIGLEC8 hIgG1 Antibody(1H10)	
SIGLEC3(CD33)	
H_CD33(SIGLEC3) CHO-K1 Cell Line	
Anti-H_CD33(siglec3) hIgG4 Antibody(Gemtuzumab)	

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