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Product Sheet

H_CD276(B7H3) KO HEK-293 Cell Line

Catalog number: GM-C48062

Version 4.0.26.1106

Specifications

Description	H_CD276(B7H3) KO HEK-293 Cell Line is a clonal stable cell line derived from HEK-293 cells with a knockout of human CD276(B7H3).
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_CD276(B7H3)
Gene ID/Uniprot ID	/
Host Cell	HEK-293
Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S
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.

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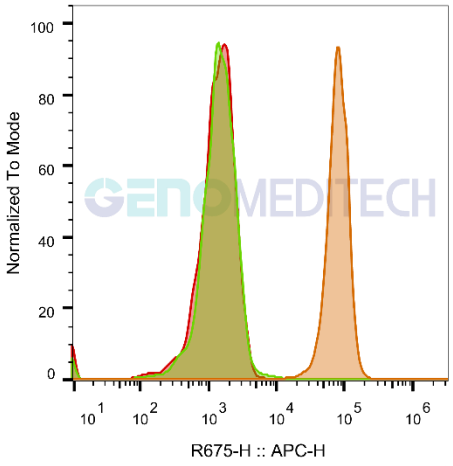
Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Anti-CD276(B7H3) hIgG1 Reference Antibody(Ifibio)	Genomeditech/GM-87345MAB
NovoCyte Flow Cytometer	Agilent/NovoCyte 2060R
Countess 3 Automated Cell Counter	ThermoFisher/A49891

Data

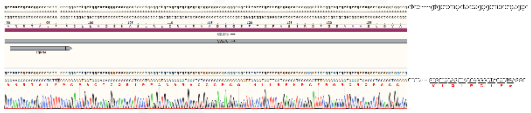
Expression



	SampleID	Geometric Mean : R675-H
	HEK-293 anti-CD276+APC-2nd	77123
	HEK-293 H_CD276(B7H3) H_IgG+APC-2nd	1353
	HEK-293 H_CD276(B7H3) anti-CD276+APC-2nd	1254

H_CD276(B7H3) KO HEK-293 Cell Line (Cat. GM-C48062) was determined by flow cytometry using Anti-CD276(B7H3) hIgG1 Reference Antibody(Ifibio) (Cat. GM-87345MAB).

Genotype Verification



The Sanger sequencing of the H_CD276(B7H3) KO HEK-293 Cell Line showed successful knockout of CD276(B7H3).

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

Antibiotics are not required during cell culture. The composition of the growth medium is identical to that of the recovery 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.

c) FBS should be heat-inactivated at 56°C for 30 minutes to inactivate complement and certain viruses, with minimal impact on most growth factor and cytokine activities.

Related Products

C-MET:HGF	
H_cMET KO HEK-293 Cell Line	H_cMET: cMET Dimerization U2OS Cell Line
Cynomolgus_cMET CHO-K1 Cell Line	H_cMET CHO-K1 Cell Line
H_cMET HEK-293 Cell Line	H_cMET HEK-293(cMET KO) Cell Line
Anti-H_HGFR(Met) hIgG4 Antibody(Emibetuzumab)	
Human HGFR(Met) Protein; His Tag	
CD276(B7H3)	
Cynomolgus_CD276 CHO-K1 Cell Line	H_CD276(B7H3) CHO-K1 Cell Line
Anti-CD276(B7H3) hIgG1 Reference Antibody(Ifibio)	Anti-CD276(B7H3)-DXD (Dar4)[Ifinatamab deruxtecan]
Biotinylated Human CD276(B7H3 2Ig) Protein; His-Avi Tag	Biotinylated Human CD276(B7H3 4Ig) Protein; His-Avi Tag
Cynomolgus CD276(B7H3 4Ig) Protein; hFc Tag	Cynomolgus CD276(B7H3 4Ig) Protein; His Tag
Human CD276(B7H3 2Ig) Protein; hFc Tag	Human CD276(B7H3 2Ig) Protein; His Tag
Human CD276(B7H3 4Ig) Protein; hFc Tag	Human CD276(B7H3 4Ig) Protein; His Tag
TROP2(TACSTD2)	
Cynomolgus_Trop2 CHO-K1 Cell Line	Cynomolgus_TROP2 HEK-293 Cell Line
H_TROP2 CHO-K1 Cell Line	H_TROP2 CT26 Cell Line
H_TROP2 HEK-293 Cell Line	H_TROP2 LLC1 Cell Line
Anti-H_TROP2 hIgG1 Antibody(Datopotamab)	Anti-TROP2 hIgG1 Antibody(Hu2G10-5)
Anti-Trop2 hIgG1 Reference Antibody (Sacbio)	Anti-Trop2 hIgG1 Reference Antibody(Datbio)
Anti-Trop2-DXD ADC(Dar4)[Datopotamab deruxtecan,Dato-DXD]	Anti-Trop2-SN38 ADC(Dar8)[Sacituzumab govitecan]
Biotinylated Cynomolgus TROP2 Protein; His-Avi Tag	Biotinylated Human TROP2 Protein; His-Avi Tag
Human TROP2 Protein; hFc Tag	Human TROP2 Protein; His Tag
ADC Related Product	
Anti-DXD Mouse IgG1 Antibody (23E21C5)	Anti-DXD Mouse IgG1 Antibody (4A5A12)
Anti-Dxd Mouse IgG2a Antibody (17D6A4)	Anti-Eribulin Mouse IgG2a Antibody (10F8G4)
Anti-MMAE Mouse IgG1 Antibody (11C10E3)	Anti-MMAE Mouse IgG2a Antibody (17A1K11)
Anti-MMAE Mouse IgG2a Antibody (8F6A3)	Anti-SN38 Mouse IgG1 Antibody(59H11C7)
Mouse anti Human IgG1-DXD(Dar8)	Mouse anti Human IgG1-MMAE(Dar4)
Human IgG1 Isotype-DXD (Dar8)	Human IgG1 Isotype-Eribulin (Dar4)
Human IgG1 Isotype-MMAE (Dar4)	

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