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Product Sheet

H_LAG3 HEK-293 Cell Line

Catalog number: GM-C26433

Version 4.0.26.1016

Specifications

Description	H_LAG3 HEK-293 Cell Line is a clonal stable HEK-293 cell line constitutively expressing human LAG3.
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_LAG3
Gene ID/Uniprot ID	P18627-1
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	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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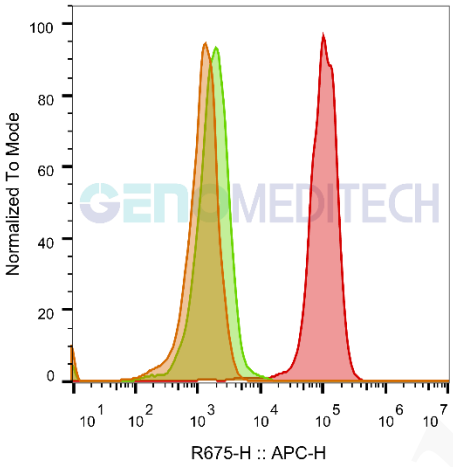
Materials

Reagent	Manufacturer/Catalogue No.
DMEM	Gibco/C11995500BT
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti-H_LAG3 hIgG4 Antibody(Mavezelimab)	Genomeditech/GM-28753AB
NovoCyte Flow Cytometer	Agilent/NovoCyte 2060R
Countess 3 Automated Cell Counter	ThermoFisher/A49891

Data

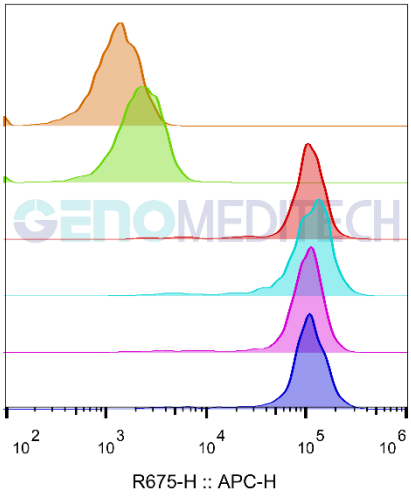
Expression



SampleID	Geometric Mean : R675-H
HEK-293 anti-LAG3+APC-2nd Ab	1108
HEK-293 H_LAG3 H_IgG+APC-2nd Ab	1693
HEK-293 H_LAG3 anti-LAG3+APC-2nd Ab	96644

H_LAG3 HEK-293 Cell Line(Cat.GM-C26433) was determined by flow cytometry using Anti-H_LAG3 hIgG4 Antibody(Mavezelimab) (Cat. GM-28753AB).

Stability



	SampleID	Geometric Mean : R675-H
	HEK-293 anti-LAG3+APC-2nd Ab	1251
	HEK-293 H_LAG3 H_IgG+APC-2nd Ab	2134
	HEK-293 H_LAG3 anti-LAG3+APC-2nd Ab CP4	89764
	HEK-293 H_LAG3 anti-LAG3+APC-2nd Ab CP11	94857
	HEK-293 H_LAG3 anti-LAG3+APC-2nd Ab CP21	85402
	HEK-293 H_LAG3 anti-LAG3+APC-2nd Ab CP35	87505

The passage stability of the H_LAG3 HEK-293 Cell Line (Cat. GM-C26433) was determined by flow cytometry using Anti-H_LAG3 hIgG4 Antibody(Mavezelimab) (Cat. GM-28753AB).

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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) 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

Lag3	
H_LAG3 Reporter Jurkat Cell Line	Cynomolgus_LAG3 CHO-K1 Cell Line
H_LAG3 CHO-K1 Cell Line	Rhesus_LAG3 CHO-K1 Cell Line
Anti-H_LAG3 hIgG4 Antibody(Mavezelimab)	Anti-Lag3 hIgG4 Antibody(IMP-7)
Anti-Lag3 hIgG4 Antibody(Relatlimab)	

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