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Product Sheet

H_SIGLEC15 U2OS Cell Line

Catalog number: GM-C07970

Version 3.3.1.241128

Description	H_SIGLEC15 U2OS Cell Line is a clonal stable U2OS cell line that constitutively expresses the human SIGLEC15 genes, 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_SIGLEC15
Gene ID/Uniprot ID	Q6ZMC9-1
Host Cell	U2OS

Recovery Medium	McCoy's 5A+10% FBS+1% P.S
Growth medium	McCoy's 5A+10% FBS+1% P.S+0.5 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.
McCoy's 5A	VivaCell/C3020-0500
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
Anti H_ SIGLEC15	In house/

Figures

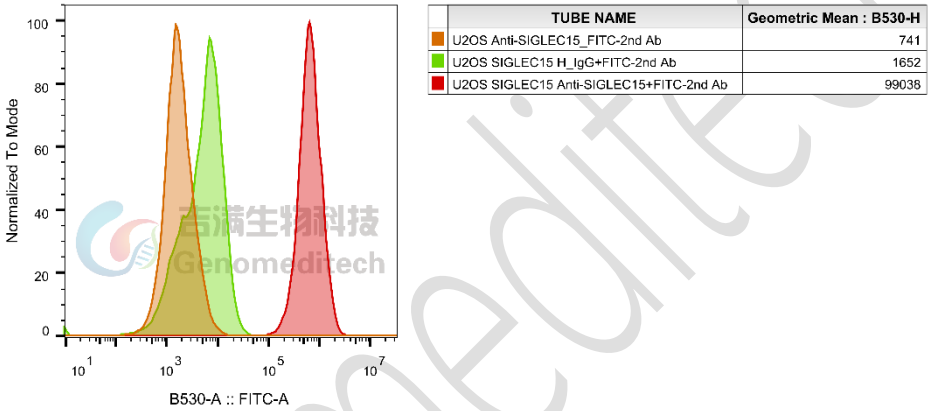

Figure 1 | H_SIGLEC15 U2OS Cell Line (Cat. GM-C07970) was determined by flow cytometry using Anti H_ SIGLEC15 (In house).

Cell Recovery

Recovery Medium: McCoy's 5A+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.

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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 4E6 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: McCoy's 5A+10% FBS+1% P.S+0.5 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 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 1:3 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) It is normal to observe a higher number of dead cells immediately after thawing. The condition will improve significantly after adjustment. Once the cells stabilize, the number of dead cells will decrease after subculturing, and the cell growth rate will become stable.

Sequence

SIGLEC15 Q6ZMC9-1

MEKSIWLLACLAWVLPTGSFVRTKIDTTENLLNTEVHSSPAQRWSMQVPPEVSAEAGDAAVLPCTFTHPHRH
YDGPLTAIWRAGEPYAGPQVFRCAAARGSELCQTALSLHGRFRLLGNPRRNDLSLRVERLALADDRRYFCR
VEFAGDVHDRYESRHGVRLHVTAAPRIVNISVLPSPAHAFRALCTAEGEPPPALAWSGPALGNSLAAVRSPRE

GHGHLVTAELPALTHDGRYTCTAANSLGRSEASVYLFRFHGASGASTVALLLGALGFKALLLLGVLAARAA
RRRPEHLDTPDTPPRSQAQESNYENLSQMNPRSPPATMCSP*

Related Products

CD24-Siglec10	
Flag-Cynomolgus_CD24 CHO-K1 Cell Line	H_CD24 CHO-K1 Cell Line
H_CD24 HEK-293 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
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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