Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

H_CD19 KO Raji Cell Line

Catalog number: GM-C39594

Version 3.3.1.250912

Description	H_CD19 KO Raji Cell Line is a clonal stable cell line derived from Raji cells with a knockout of human CD19.
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_CD19
Gene ID/Uniprot ID	/
Host Cell	Raji
Recovery Medium	RPMI 1640+10% FBS+1% P.S
Growth medium	RPMI 1640+10% FBS+1% P.S
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Suspension
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.
RPMI 1640	VivaCell/C3010-0500
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Anti-CD19 hIgG1 Reference Antibody (Loncbio)	Genomeditech/GM-87912MAB

Figures

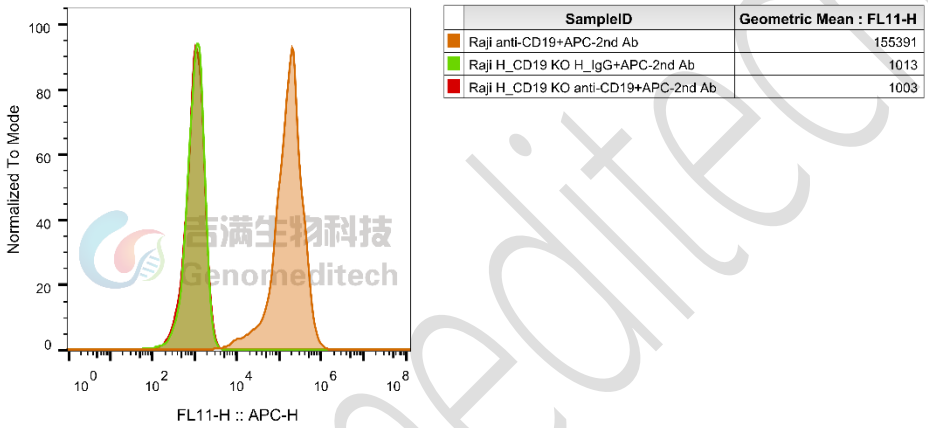

Figure 1 | H_CD19 KO Raji Cell Line (Cat. GM-C39594) was determined by flow cytometry using Anti-CD19 hIgG1 Reference Antibody (Loncbio) (Cat. GM-87912MAB).

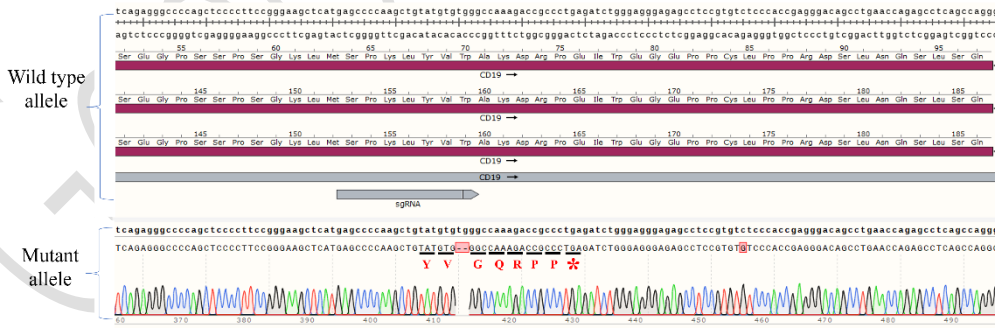

Figure 2 | The Sanger sequencing of the H_CD19 KO Raji Cell Line showed successful knockout of CD19.

Cell Recovery

Recovery Medium: RPMI 1640+10% FBS+1% P.S

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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 complete medium. And dispense the suspension into an appropriate culture flask and initially place the flask in an upright position after thawing.
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: RPMI 1640+10% FBS+1% P.S

Approximately 48-72 hours after the initial thawing, the cells can be passaged for the first time. After this initial passage, the culture medium can be adjusted to growth medium supplemented with antibiotics. If cells are not passaged within 48 hours, it is recommended to add some fresh recovery medium and place the flask horizontally.

a) When the cell density reaches 1 - 1.2E6 cells/mL, subculture the cells. Do not allow the cell density to exceed 1.2E6 cells/mL.
b) It is recommended to use T-25 flasks for subculturing.
c) These cells are suspension cells, and it is recommended to use the "half-medium change" method to maintain optimal cell conditions during passaging.
d) During passaging, you can directly add fresh growth medium to the culture flask, gently pipette to resuspend the cells, and then transfer the cell suspension to a new T-25 flask for continued culture.

Subcultivation Ratio: Maintain cultures at a cell concentraion between 2.5E5 and 8E5 viable cells/mL.

Medium Renewal: Every 2 to 3 days

Notes

a) These cells are sensitive to density, so please ensure that the cell density is maintained within an appropriate range during culture and subculturing.

b) During the first passage, pay attention to the nutrient supply; if not subculturing, make sure to add fresh recovery medium every other day as needed.

Related Products

CD20(MS4A1)	
ADCC FcγRIIIa(158V) Jurkat Effector Cell Line	Cynomolgus_CD20 CHO-K1 Cell line
H_CD20 CHO-K1 Cell Line	H_CD20 HEK-293 Cell Line
Mouse_CD20 CHO-K1 Cell Line	
	Anti-CD20 hIgG1 Reference Antibody(Ritubio)
Anti-H_MS4A1(CD20) hIgG1 Antibody(Ocrelizumab)	
CD19	
Cynomolgus_CD19 CHO-K1 Cell Line	Cynomolgus_CD19 HEK-293 Cell Line
H_CD19 CHO-K1 Cell line	H_CD19 HEK-293 Cell Line
Mouse_CD19 CHO-K1 Cell Line	
Anti-CD19 hIgG1 Reference Antibody (Loncbio)	Anti-H_CD19 hIgG1/hIgG2 Antibody(Tafasitamab)
CD3	
H_CD3D CD3E KO Jurkat Cell Line	ADCC FcγRIIIa(158V) Reporter Jurkat(CD3 KO) Cell Line
CD3-CD2-tsAb Reporter Jurkat(CD58 KO) Cell Line	Jurkat CD3-BsAb Reporter Cell Line
Cynomolgus_CD3 HEK-293 Cell Line	Cynomolgus_CD3E(Membrane Bound ECD) CHO-K1 Cell Line
H_CD3 CHO-K1 Cell Line	H_CD3 HEK-293 Cell Line
H_CD3E(Membrane Bound ECD) CHO-K1 Cell Line	Mouse_CD3 HEK-293 Cell Line
Anti-CD3 epsilon hIgG1 Antibody [OKT-3 (muromonab)]	Anti-CD3 hIgG1 Antibody(CH2527)
Anti-mouse CD3ε mIgG2a Antibody(145-2C11)	
CD2	
Cynomolgus_CD2 CHO-K1 Cell Line	H_CD2 CHO-K1 Cell Line
Anti-CD2 hIgG1 Antibody(BTI-322)	

License Agreement:

By purchasing and using this cell line product, the user voluntarily agrees to accept and abide by the following policies:

- This cell line product is restricted to research use only and shall not be used for any commercial purposes.
- This product is strictly prohibited from being used in the diagnosis or treatment of human or animal diseases, and shall not be directly used in experiments involving humans.

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