Genomeditech (Shanghai) Co.,Ltd.
Order: +86 021-68455258/50432826/50432825
Toll-free: +86 400 627 9288
Email: service@genomeditech.com

Product Sheet

H_CD47 LLC1 Cell Line

Catalog number: GM-C24232

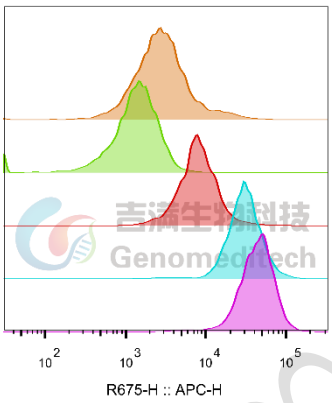
Version 3.3.1.260306

Description	H_CD47 LLC1 Cell Line is a clonal stable LLC1 cell line that constitutively expresses the human CD47 gene, constructed using lentiviral technology.
Quantity	5E6 Cells per vial,1 mL
Product Format	3 vial of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	H_CD47
Gene ID/Uniprot ID	Q08722-1 1995-11-01 v1
Host Cell	LLC1
Recovery Medium	DMEM+10% FBS+1% P.S
Growth medium	DMEM+10% FBS+1% P.S+300 μg/mL G418
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.

Materials

Reagent	Manufacturer/Catalogue No.
G418	Genomeditech/GM-040402
Pen/Strep	Thermo/15140-122
Fetal Bovine Serum	ExCell/FSP500
DMEM	Gibco/C11995500BT
Anti-CD47 hIgG4 Antibody(5F9)	Genomeditech/GM-27657AB

Figures



SampleID	Geometric Mean : R675-H
LLC1 Anti-CD47+APC 2nd Ab	2821
LLC1 H_CD47 H_IgG+APC 2nd Ab	1272
LLC1 H_CD47 #1 Anti-CD47+APC 2nd Ab	7905
LLC1 H_CD47 #2 Anti-CD47+APC 2nd Ab	29224
LLC1 H_CD47 #5 Anti-CD47+APC 2nd Ab	40945

Figure 1 | H_CD47 LLC1 Cell Line (Cat. GM-C24232) was determined by flow cytometry using Anti-CD47 hIgG4 Antibody(5F9) (Cat. GM-27657AB).

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+300 μg/mL G418

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth medium.

a) Under normal conditions, these cells exist as both adherent and round suspension cells.

b) When changing the medium, take care to retain the suspension cells. During passaging, collect both the adherent and suspension cells together before subculturing.

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 1 to 2 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 1:2 - 1:4 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

Sequence

CD47 Q08722-1

MWPLVAALLLGSACCGSAQLLFNKTKSVEFTFCNDTVVIPCFVTNMEAQNTTEVYVKWKFKGRDIYTFDGA
LNKSTVPTDFSSAKIEVSQLLKGDASLKMDKSDAVSHTGNYTCEVTELTREGETIIELKYRVVSWFSPNENILI
VIFPIFAILLFWGQFGIKTLKYRSGGMDEKTIALLVAGLVITVIVIVGAILFVPGEYSLKNATGLGLIVTSTGILIL

LHYYVFSTAIGLTSFVIAILVIQVIAYILAVVGLSLCIAACIPMHGPLLISGLSILALAQLLGLVYMKFVASNQKT IQPPRKAVEEPLNAFKESKGMMNDE

Related Products

CD47:SIRPα	
H_SIRPα Blockade Reporter Cell Line	H_SIRPα Reporter Jurkat Cell Line
Cynomolgus_CD47 CHO-K1 Cell Line	H_CD47 aAPC CHO-K1 Cell Line
H_CD47 CHO-K1 Cell Line	H_CD47 MC38 Cell Line
H_CD47 PDL1 MC38(mouse_PDL1 KO) Cell Line	H_SIRPA(SIRPα) CHO-K1 Cell Line
Mouse_CD47 CHO-K1 Cell Line	
Anti-CD47 hIgG4 Antibody(5F9)	Anti-mouse SIRPA mIgG1 Antibody(p84)
Anti-mouse SIRPA RIgG1 Antibody(p84)	

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.
- Users and their contractors engaged for their benefit may use this material and its derivatives only within the agreed research scope; modification of the material is not permitted, nor may it be distributed, sold, transferred, or otherwise provided to any other entity (including affiliates).
- If use beyond the above scope is required, prior written permission from Genomeditech (Shanghai) Co.,Ltd. must be obtained. For details, please contact Genomeditech (Shanghai) Co.,Ltd.