

# Product Sheet

## H\_PDL1 LLC1(mouse\_PDL1 KO) Cell Line

Catalog number: GM-C38141

Version 3.3.1.250314

<b>Description</b>	H_PDL1 LLC1(mouse_PDL1 KO) Cell Line is a clonal stable LLC1 cell line that continuously expresses human PDL1. It is constructed using lentiviral technology, based on the knockout of mouse PDL1.
<b>Quantity</b>	5E6 Cells per vial, 1 mL
<b>Product Format</b>	1 vial of frozen cells
<b>Shipping</b>	Shipped on dry ice
<b>Storage Conditions</b>	Liquid nitrogen immediately upon receipt
<b>Target</b>	Human_PDL1
<b>Gene ID/Uniprot ID</b>	Q9NZQ7-1
<b>Host Cell</b>	LLC1
<b>Recovery Medium</b>	DMEM+10% FBS+1% P.S
<b>Growth medium</b>	DMEM+10% FBS+1% P.S+200 µg/mL Hygromycin
<b>Note</b>	The cells are very sensitive to antibiotics and should be cultured using the cell growth medium provided by Genomeditech. These cells are constructed based on mouse_PDL1 knockout parent cells, which contain Blasticidin and Puromycin resistance genes.
<b>Freezing Medium</b>	90% FBS+10% DMSO
<b>Growth properties</b>	Adherent
<b>Growth Conditions</b>	37°C, 5% CO <sub>2</sub>
<b>Mycoplasma Testing</b>	The cell line has been screened to confirm the absence of Mycoplasma species.
<b>Safety considerations</b>	Biosafety Level 2
<b>Note</b>	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.
DMEM	VivaCell/C3110-0500
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Hygromycin	Genomeditech/GM-040403
Anti-PDL1 Antibody	In house/
PE anti-mouse CD274 (B7-H1, PD-L1) Antibody	BioLegend/124307

## Figures

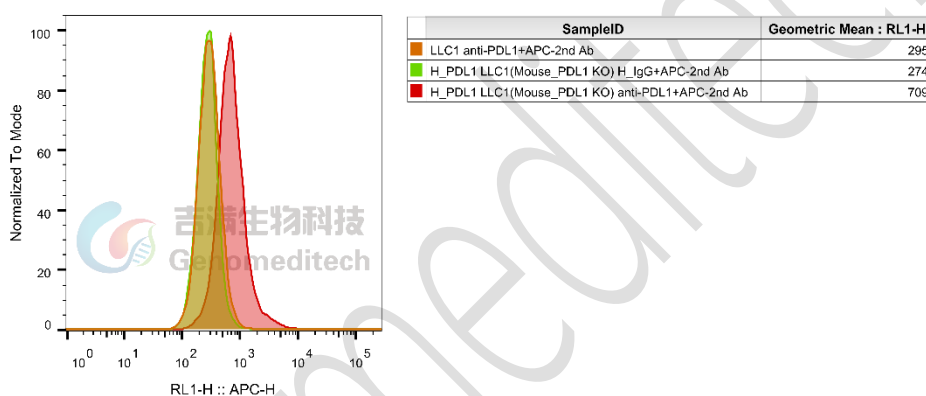


Figure 1 | H\_PDL1 LLC1(mouse\_PDL1 KO) Cell Line (Cat. GM-C38141) was determined by flow cytometry using Anti-PDL1 Antibody (In house).

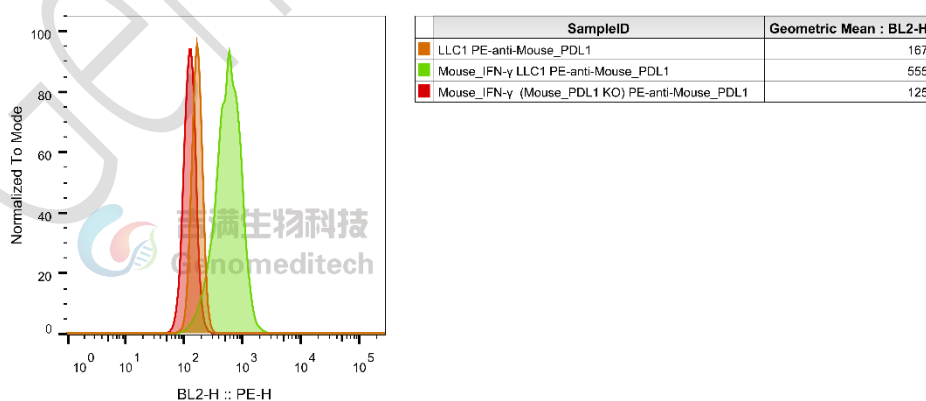


Figure 2 | H\_PDL1 LLC1(mouse\_PDL1 KO) Cell Line (Cat. GM-C38141) was determined by flow cytometry using PE anti-mouse CD274 (B7-H1, PD-L1) Antibody (BioLegend/124307) after stimulation with Mouse INF-γ.

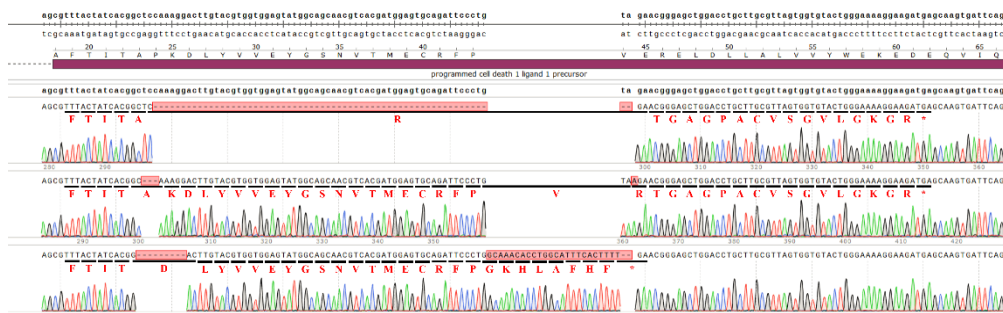


Figure 3 | The Sanger sequencing of the H\_PDL1 LLC1(mouse\_PDL1 KO) Cell Line (Cat. GM-C38141) showed successful knockout of mouse PDL1.

## 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  $-70^{\circ}\text{C}$ . Storage at  $-70^{\circ}\text{C}$  will result in loss of viability.

- Thaw the vial by gentle agitation in a  $37^{\circ}\text{C}$  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).
- 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.
- Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately  $176 \times g$  for 5 minutes. Discard supernatant.
- Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
- Incubate the culture at  $37^{\circ}\text{C}$  in a suitable incubator. A 5%  $\text{CO}_2$  in air atmosphere is recommended if using the medium described on this product sheet.

## Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

- Centrifuge at  $176 \times g$  for 3 minutes to collect cells.
- Resuspend the cells in pre-cooled freezing medium and adjust the cell density to  $5 \times 10^6$  cells/mL.
- Aliquot 1 mL into each vial.
- Place the vial in a controlled-rate freezing container and store at  $-80^{\circ}\text{C}$  for at least 1 day, then transfer to liquid nitrogen as soon as possible.

## Cell passage

Growth medium: DMEM+10% FBS+1% P.S+200  $\mu\text{g}/\text{mL}$  Hygromycin

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

PDL1 Q9NZQ7-1

MRIFAVFIFMTYWHLNNAFTVTPKDLVYVEYGSNMTEICKFPVEKQLDLAALIVYWEMEDKNIIQFVHGEE  
 DLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQRILV  
 VDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPE  
 ENHTAELVIPELPLAHPNERTHLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET

## Related Products

PD-1:PD-L1(B7-H1):PDL2	
<a href="#">Mouse_PDL1 KO MC38 Cell Line</a>	<a href="#">aAPC(OKT3) PDL1 CHO-K1 Cell Line</a>
<a href="#">H_PD-1 Reporter Jurkat Cell Line</a>	<a href="#">H_PDCD1LG2(PDL2) aAPC CHO-K1 Cell Line</a>
<a href="#">Mouse PDL1 aAPC CHO-K1 Cell Line</a>	<a href="#">Mouse_PD-1 Reporter Jurkat Cell Line</a>
<a href="#">Canine_PD-1 HEK-293 Cell Line</a>	<a href="#">Cynomolgus_PD1 CHO-K1 Cell Line</a>
<a href="#">H_CD274(PD-L1) CHO-K1 Cell Line</a>	<a href="#">H_CD274(PD-L1) MC38 Cell Line</a>
<a href="#">H_PDCD1(PD-1) CHO-K1 Cell Line</a>	<a href="#">H_PDCD1LG2(PDL2) CHO-K1 Cell Line</a>
<a href="#">H_PD-L1 HEK-293 Cell Line</a>	<a href="#">H_PDL1 LLC1(mouse_PDL1 KO) Cell Line</a>
<a href="#">H_PDL1 MC38(mouse PDL1 KO) Cell Line</a>	<a href="#">H_PD-L1 Raji Cell Line</a>
<a href="#">M_PDCD1(PD-1) CHO-K1 Cell Line</a>	

Anti-Canine_PD1 mIgG2a Antibody(4F12-E6)	Anti-H_CD274(PDL1) hIgG1 Antibody(Atezolizumab)
Anti-H_PDCD1(PD1) hIgG1 Antibody(Budigalimab)	Anti-H_PDCD1LG2 mIgG1 Antibody(3G2)
Anti-mouse PD1 RIgG2a Antibody(RMP1-14)	Anti-mouse PD-L1 mIgG1 Antibody(10F.9G2)
Anti-Mouse_PD1 mIgG1 Antibody(29F.1A12)	Anti-mouse_PD1 mIgG1 Antibody(RMP1-14)
Anti-PD1 hIgG4 Antibody(Pembrolizumab)	Anti-PD1 hIgG4 Reference Antibody (Nivbio)
Anti-PD1 hIgG4 Reference Antibody (Pembio)	Anti-PD1 hIgG4 Reference Antibody (Sintbio)
Anti-PD-1 hIgG4 Reference Antibody (Torbio)	Anti-PD1 hIgG4 Reference Antibody(Cambio)
Anti-PD-1 hIgG4 Reference Antibody(Tislbio)	Anti-PD-L1 hIgG1 Reference Antibody(Avebio)
Anti-PDL1 hIgG4 Reference Antibody(Adebio)	Anti-PD-L2 hIgG1 Antibody(Hz25G4-1.1)
Biotinylated Human PD1 Protein; His-Avi Tag	Biotinylated Human PDL1 Protein; His-Avi Tag
Canine PD1 Protein; hFc Tag	Cynomolgus PDL1 Protein; His Tag
Human PD1 Protein; His Tag	Human PDL1 Protein; His Tag
Mouse PDL1 Protein; His Tag	

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