Genomeditech (Shanghai) Co.,Ltd.
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# Product Sheet

## Mouse_PDL1 KO MC38 Cell Line

Catalog number: GM-C15642

Version 3.3.1.250113

| | |
|---|---|
| **Description** | Mouse_PDL1 KO MC38 Cell Line is a clonal stable cell line derived from MC38 cells with a knockout of mouse PDL1. |
| **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** | Mouse_PDL1 |
| **Gene ID/Uniprot ID** | / |
| **Host Cell** | MC38 |
| **Recovery Medium** | DMEM+10% FBS+1% P.S |
| **Growth medium** | DMEM+10% FBS+1% P.S+2 μg/mL Blasticidin+200 μg/mL Hygromycin |
| **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 | VivaCell/C3110-0500 |
| Fetal Bovine Serum | Cegrogen biotech/A0500-3010 |
| Pen/Strep | Thermo/15140-122 |
| Blasticidin | Genomeditech/GM-040404 |
| Puromycin | Genomeditech/GM-040401 |
| PE anti-mouse CD274 (B7-H1, PD-L1) Antibody | Biolegend/124308 |

## Figures

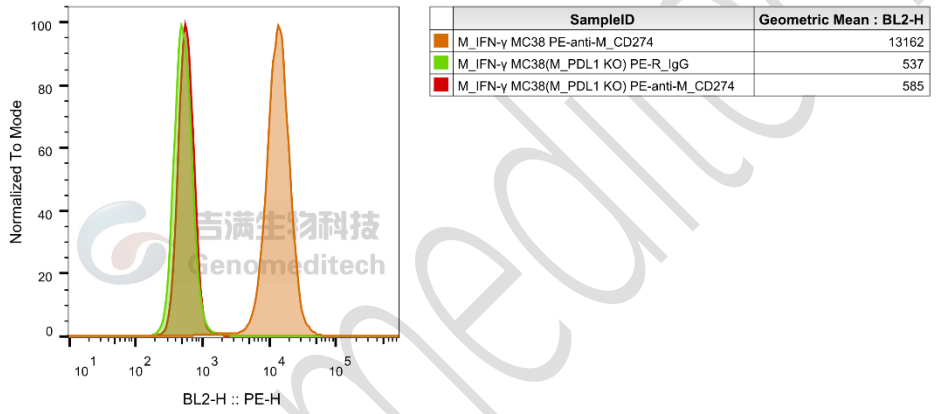


Figure 1 | Mouse_PDL1 KO MC38 Cell Line (Cat. GM-C15642) was determined by flow cytometry using PE anti-mouse CD274 (B7-H1, PD-L1) Antibody (BioLegend/124307).

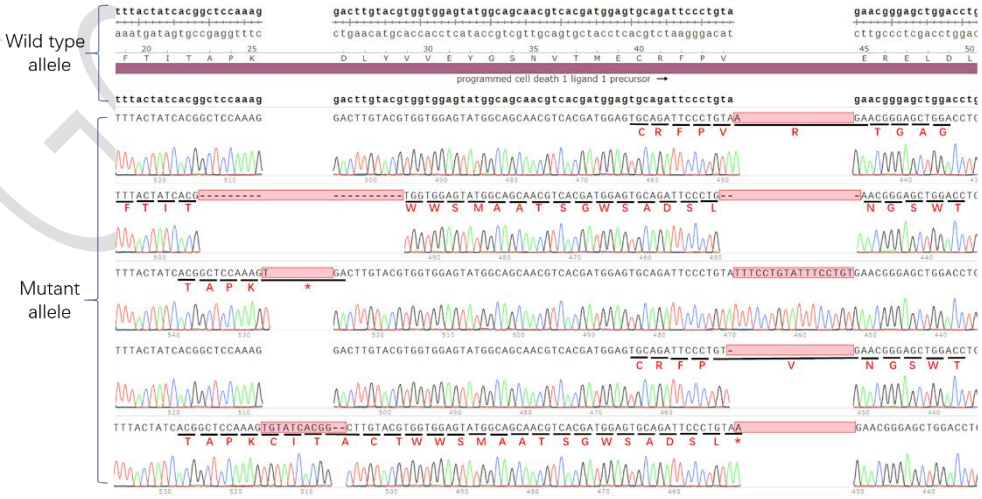


Figure 2 | The Sanger sequencing of the Mouse_PDL1 KO MC38 Cell Line showed successful knockout of PDL1.

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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+2 μg/mL Blasticidin+200 μg/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) 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 30 to 60 seconds 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 1:4 - 1:5 is recommended**

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**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

## Related Products

| PD-1:PD-L1(B7-H1):PDL2 | |
|---|---|
| aAPC(OKT3) PDL1 CHO-K1 Cell Line | H_PD-1 Reporter Jurkat Cell Line |
| H_PDCD1LG2(PDL2) aAPC CHO-K1 Cell Line | Mouse PDL1 aAPC CHO-K1 Cell Line |
| Mouse_PD-1 Reporter Jurkat Cell Line | Canine_PD-1 HEK-293 Cell Line |
| Cynomolgus_PD1 CHO-K1 Cell Line | H_CD274(PD-L1) CHO-K1 Cell Line |
| H_CD274(PD-L1) MC38 Cell Line | H_PDCD1(PD-1) CHO-K1 Cell Line |
| H_PDCD1LG2(PDL2) CHO-K1 Cell Line | H_PD-L1 HEK-293 Cell Line |
| H_PDL1 LLC1(mouse_PDL1 KO) Cell Line | H_PDL1 MC38(mouse PDL1 KO) Cell Line |
| H_PD-L1 Raji Cell Line | M_PDCD1(PD-1) CHO-K1 Cell Line |
| 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 |

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