

Hepa1-6-hPD-L1

Strain Information

Cat. NO. NM-GA02-TM01

Cell Line Hepa1-6-*Cd274*^{em1(hPD-L1)Smoc}

Strain State Validation of tumorigenic capacity completed

Model Description The endogenous mouse *Cd274*(also known as PD-L1) gene was replaced by human PDL1 gene.

*Literature published using this strain should indicate: Hepa1-6-hPD-L1 cell line (Cat. NO. NM-GA02-TM01) was purchased from Shanghai Model Organisms Center, Inc..

Validation Data

1. *In vitro* Expression of Hepa1-6-hPDL1 cell line

The hPDL1 protein expression in the Hepa1-6-hPDL1 cells were measured by Flow Cytometry. FACS data showed that significant human PDL1 expression in the Hepa1-6-hPDL1 cell line.

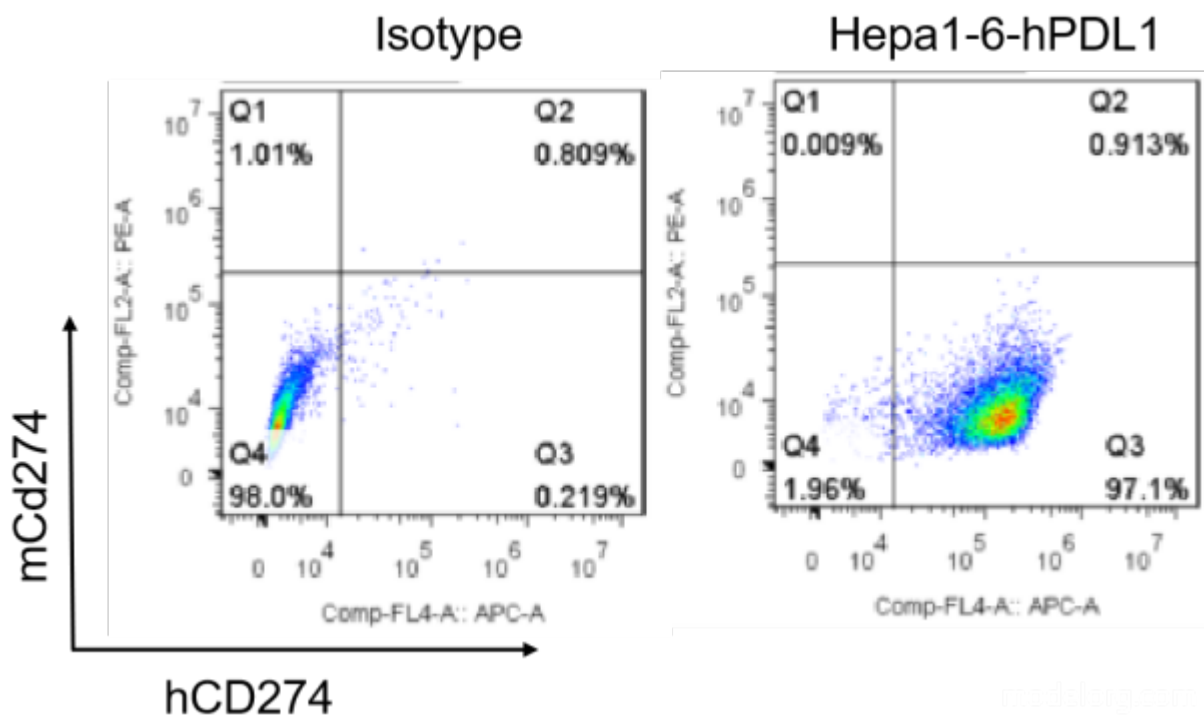


Figure 1. hPDL1 expression in Hepa1-6-hPDL1 cell line

2. Characterization of in vivo growth kinetics

To test the take rates, and the tumor growth characteristics of Hepa1-6-hPDL1 cell line, cells were subcutaneously inoculated into the C57BL/6 mice. The tumor growth curve was shown in the Fig 2.

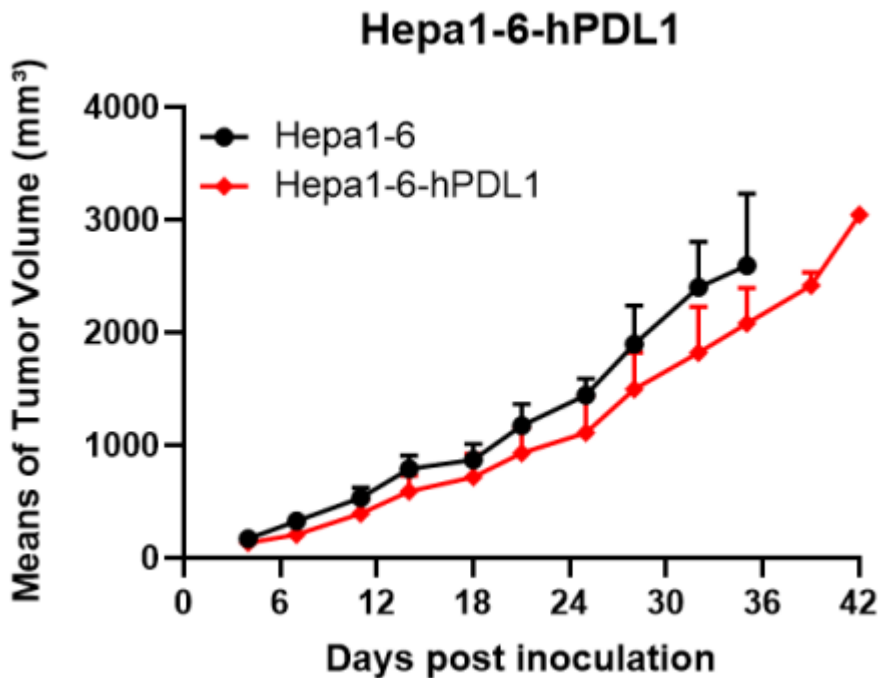


Figure 2. Tumor growth curve of Hepa1-6-hPDL1 syngeneic model (n=4)

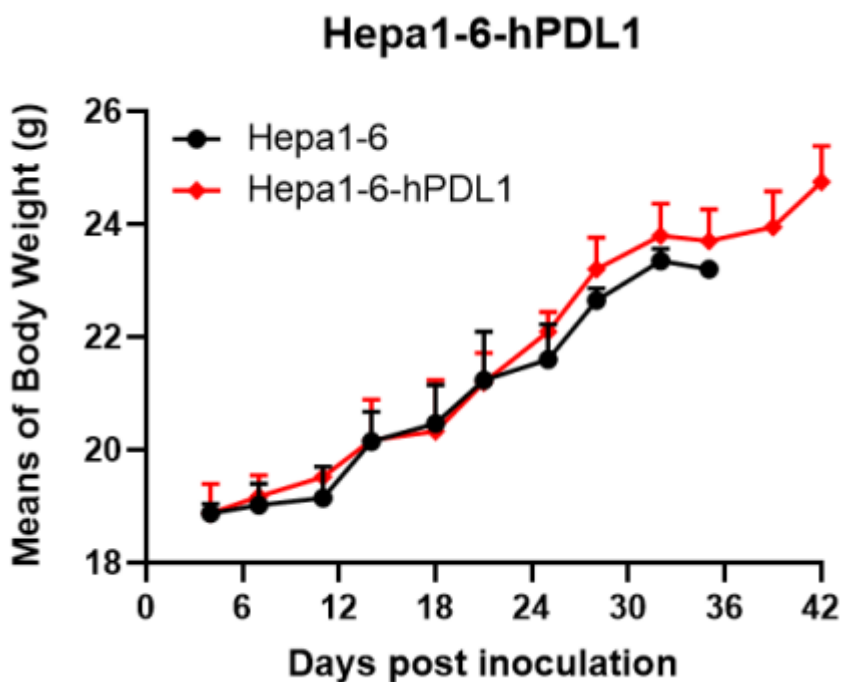


Figure 3. Body weight change of Hepa1-6-hPDL1 syngeneic model (n=4)

3. Expression of hPDL1 protein in tumors

To verify the hPDL1 protein expression, the tumors were dissected and separated for single cell suspension. Human PDL1 protein expression can be detected in the humanized modified tumors.

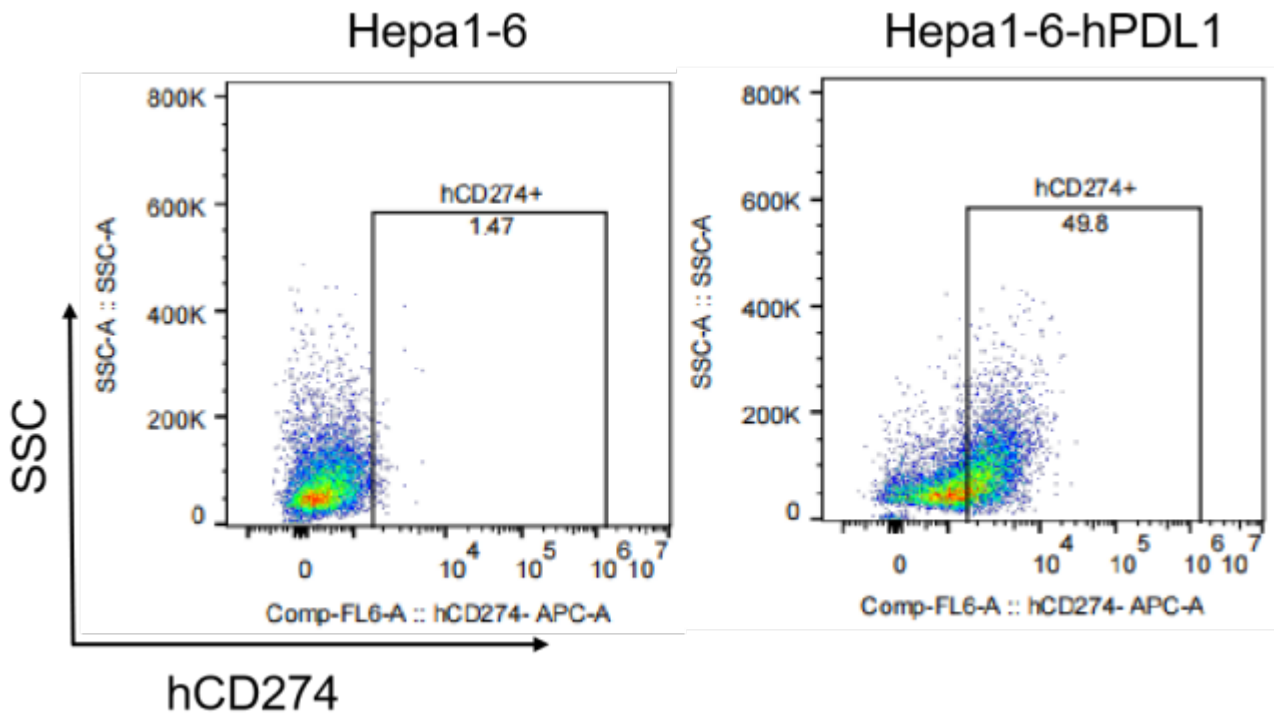


Figure 4. The expression of hPDL1 in humanized modified tumors by FACS