

hPD-L1

系統名	C57BL/6Smoc- <i>Cd274</i> ^{em1(hPD-L1)Smoc}
SMOC番号	NM-HU-00062
維持形態	Repository Live

遺伝子の概要

Gene Symbol Cd274	Synonyms	B7h1; Pdl1; Pcd1l1; Pcd1lg1; A530045L16Rik
	NCBI ID	60533
	MGI ID	1926446
	Ensembl ID	ENSMUSG00000016496
	Human Ortholog	CD274

説明

通过同源重组，将小鼠基因Cd274进行人源化修饰。与此相似的品系还有hPD-L1(2)(NM-HU-190039), 详细信息请咨询技术顾问。

応用分野: 免疫治疗; 肿瘤研究; 药物筛选

*Literature published using this strain should indicate: hPD-L1 mice (Cat. NO. NM-HU-00062) were purchased from Shanghai Model Organisms Center, Inc..

表現型データ

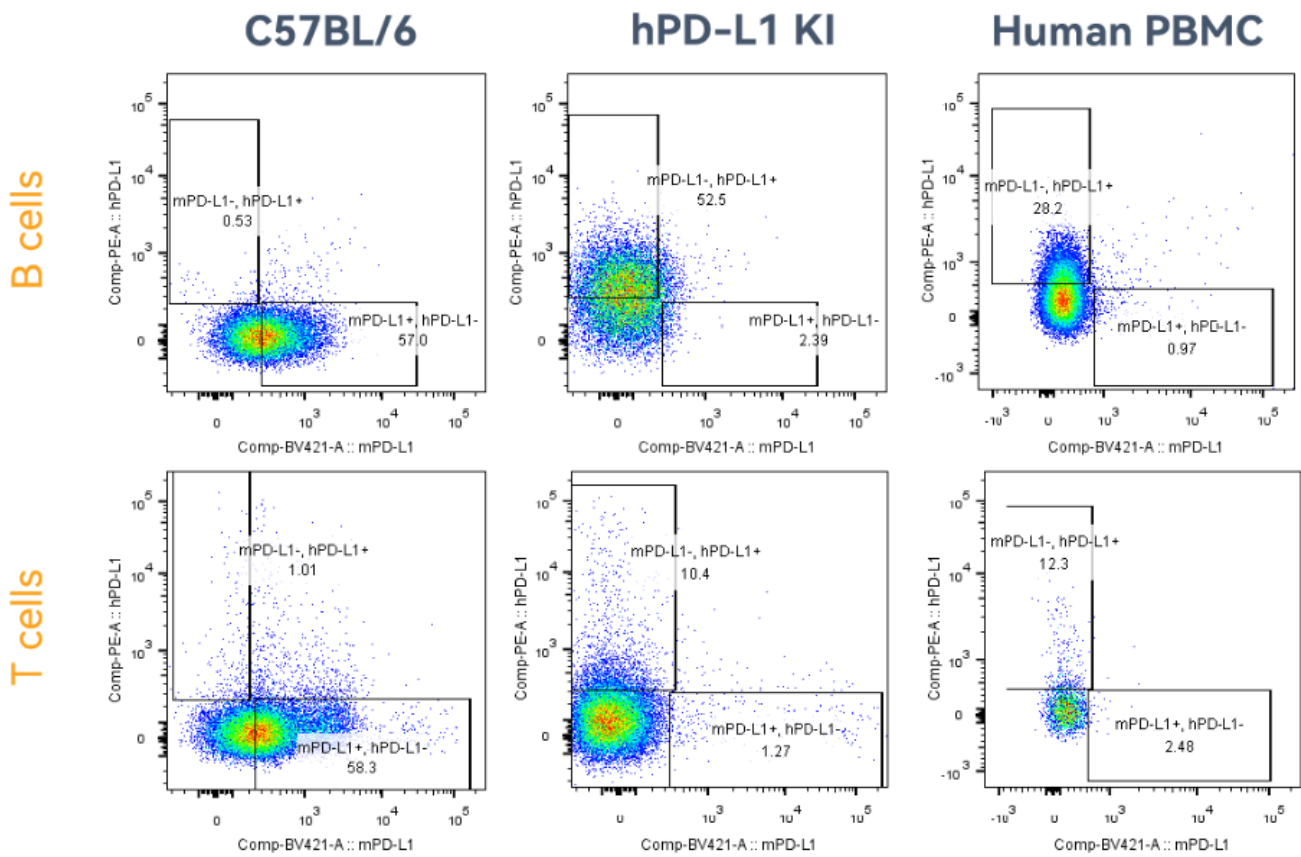


Fig1. Expression of PD-L1 in the spleen lymphocytes collected from homozygous humanized PD-L1 mice and wild-type mice is detected by FACS. The results showed that the expression of human PD-L1 can be detected in both T cells and B cells collected from the spleen of homozygous humanized PD-L1 mice. (Completed in collaboration with CrownBio)

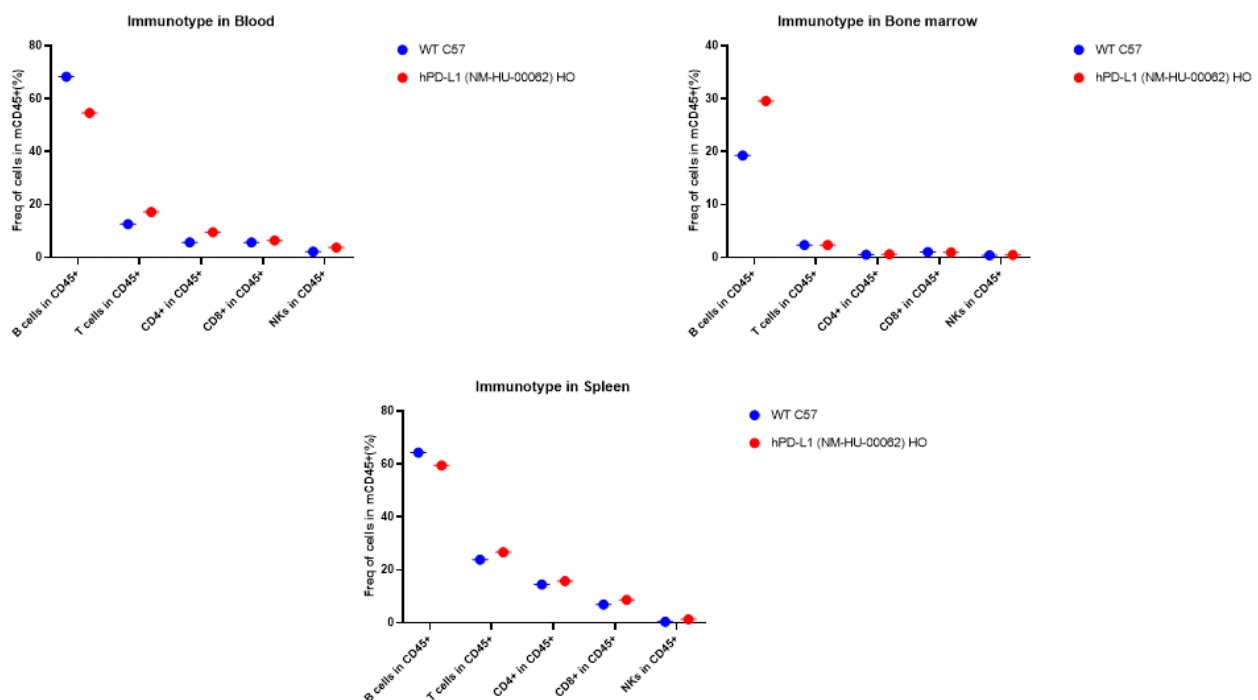


Fig2. Immunotype in blood , spleen and bone marrow in hPD-L1 mice.

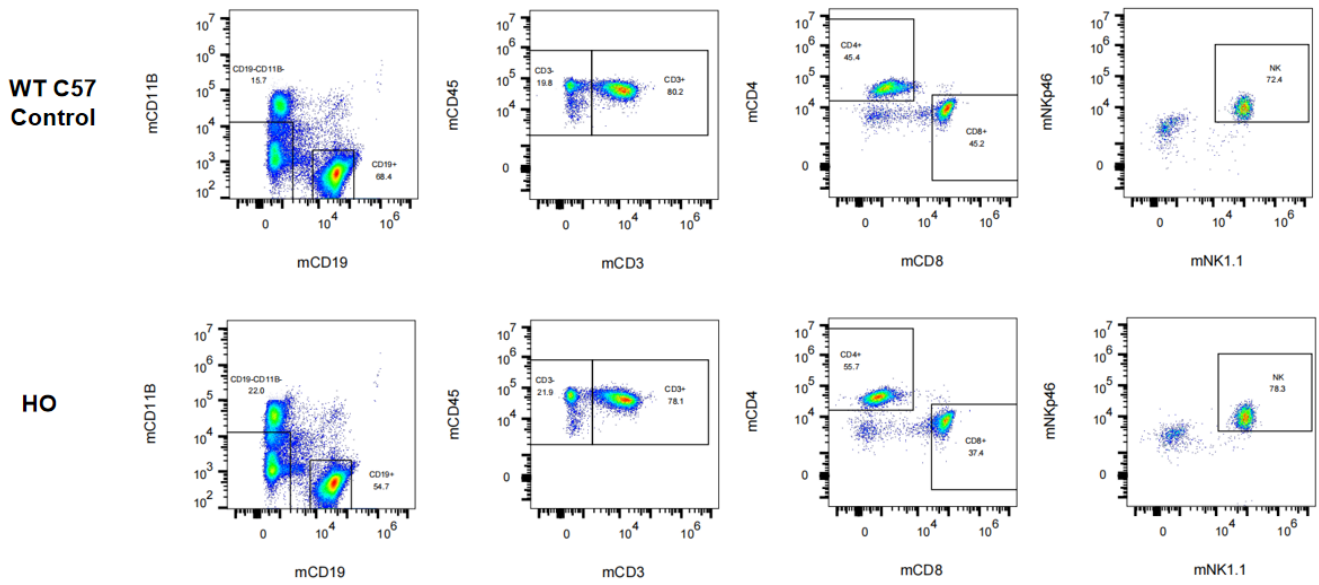


Fig3. Immunotype in blood in hPD-L1 mice.

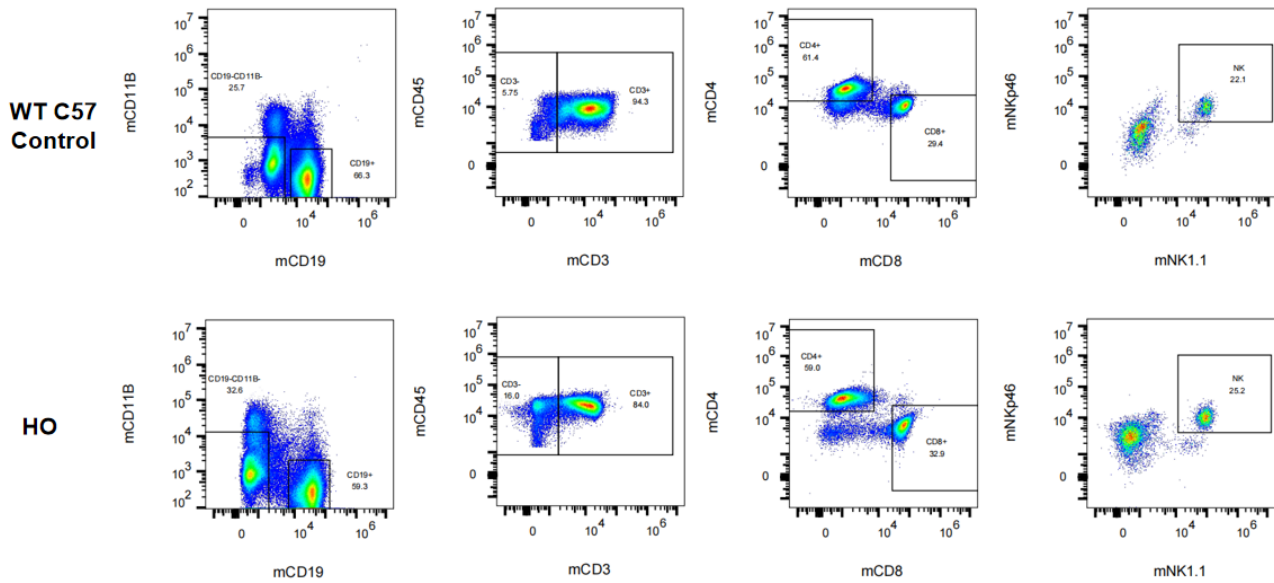


Fig4. Immunotype in spleen in hPD-L1 mice.

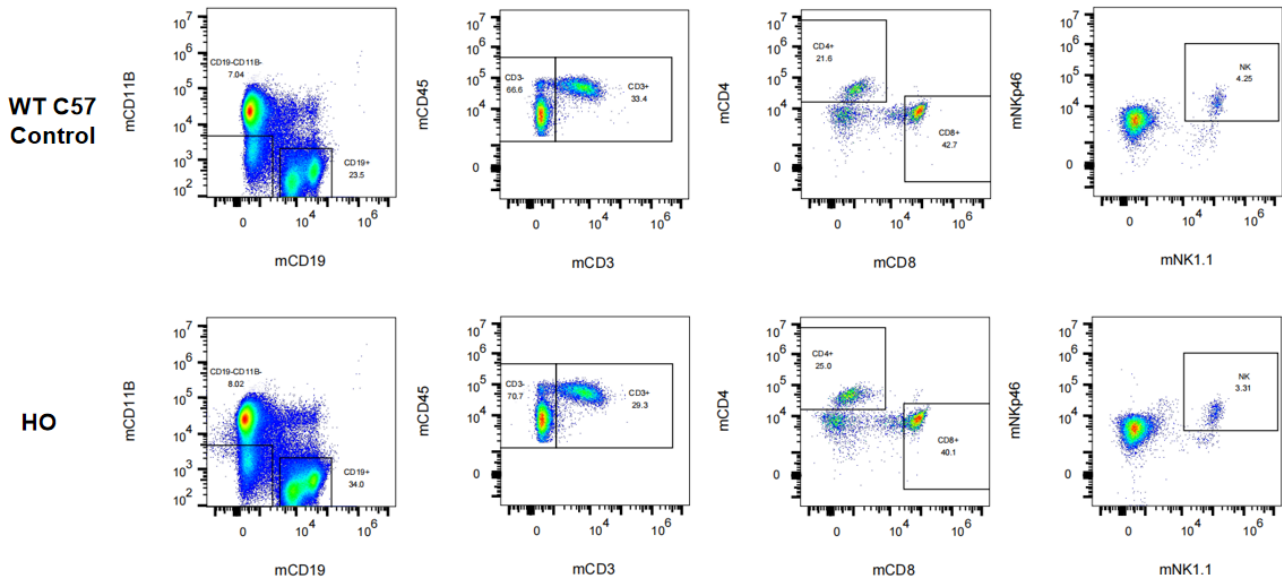
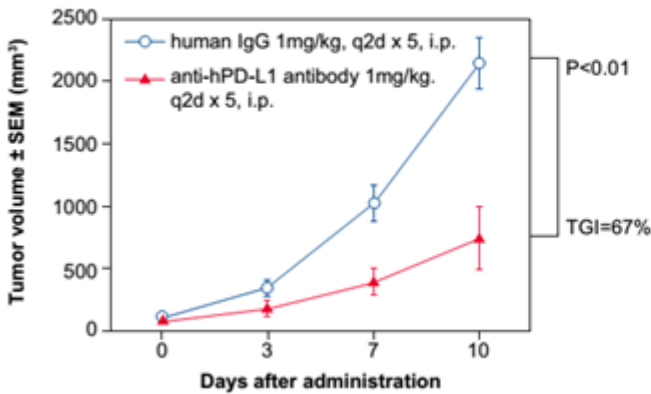


Fig5. Immunotype in bone marrow in hPD-L1 mice.

PD-L1 antibody anti-tumor efficacy validation



Body weight changes in anti-tumor validation

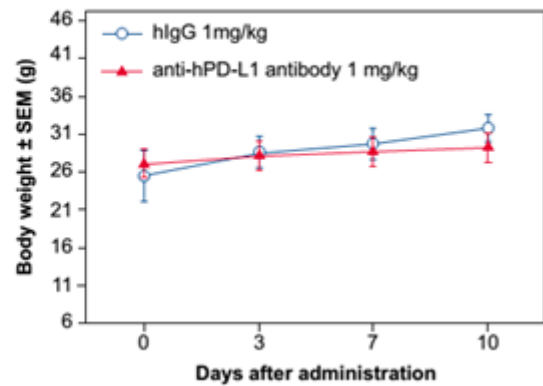


Fig6. *In vivo* validation of anti-tumor efficacy in a MC38 tumor-bearing model of humanized PD-L1 mice. Homozygous humanized PD-L1 mice were inoculated with MC38 colon cancer cells (expressing human PDL1 rather than murine PD-L1). After the tumors grew to 100 mm³, the animals were randomly assigned into a control group and a treatment group (n=5). The results showed: The antibodies targeting human PD-L1 were associated with a very significant anti-tumor effect (TGI: tumor growth inhibition, p < 0.001), demonstrating that the humanized PD-L1 mice are a good *in vivo* model for validating the efficacy of antibodies targeting human PD-L1.

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