

hIL2RA

Nomenclature	C57BL/6Smoc- <i>Il2ra</i> ^{tm1(hIL2RA)Smoc}
Cat. NO.	NM-HU-190064
Strain State	Repository Live

Gene Summary

Gene Symbol IL2RA	Synonyms	CD25; Il2r; IL-2R alpha chain; Ly-43
	NCBI ID	16184
	MGI ID	96549
	Ensembl ID	ENSMUSG00000026770
	Human Ortholog	IL2RA
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	Human Ortholog	IL2RA

Model Description

The endogenous mouse Il2ra gene was replaced by human IL2RA gene.

Research Application: Immunotherapy, cancer research, drug screening

*Literature published using this strain should indicate: hIL2RA mice (Cat. NO. NM-HU-190064) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

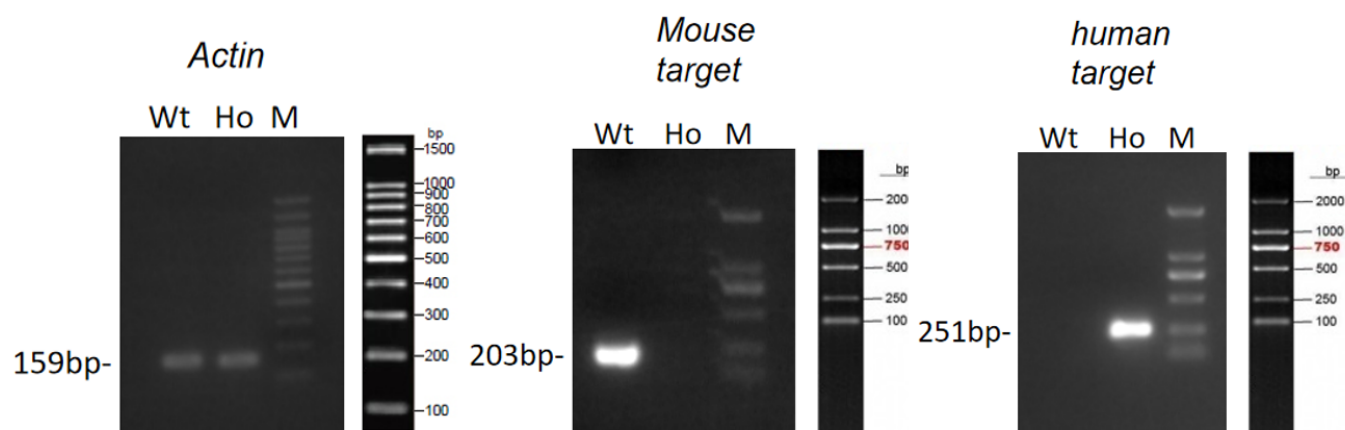


Fig1. Detection of IL2RA expression by RT-PCR.

Wild type: only one band at 203 bp with primers F2/R2(mIL2ra);

Homozygous: only one band at 251 bp with primers F1/R1(hIL2RA);

Abbr.. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

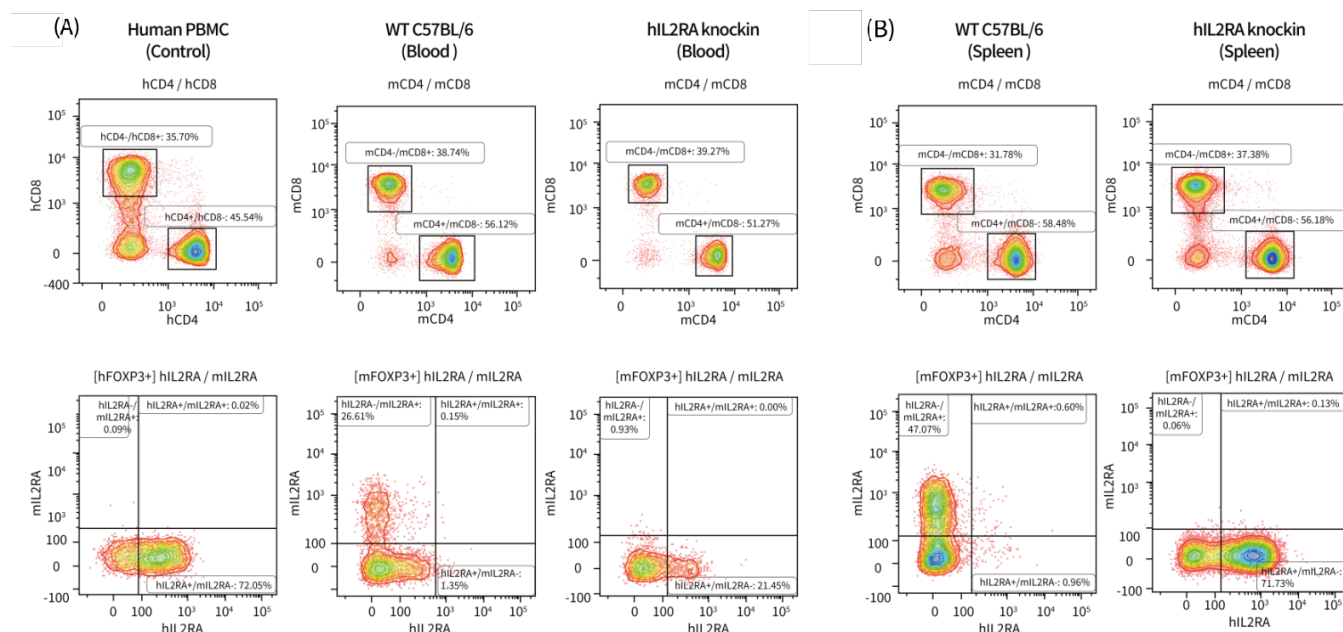


Fig2. Development and validation of hIL2RA knockin mice. (Completed in collaboration with CrownBio)

(A) Targeting strategy for hIL2RA knockin mice development; (B) hIL2A expression on naive Treg cells in blood in homozygous hIL2RA knockin mice; (C) hIL2A expression on naive Treg cells in spleen in homozygous hIL2RA knockin mice.

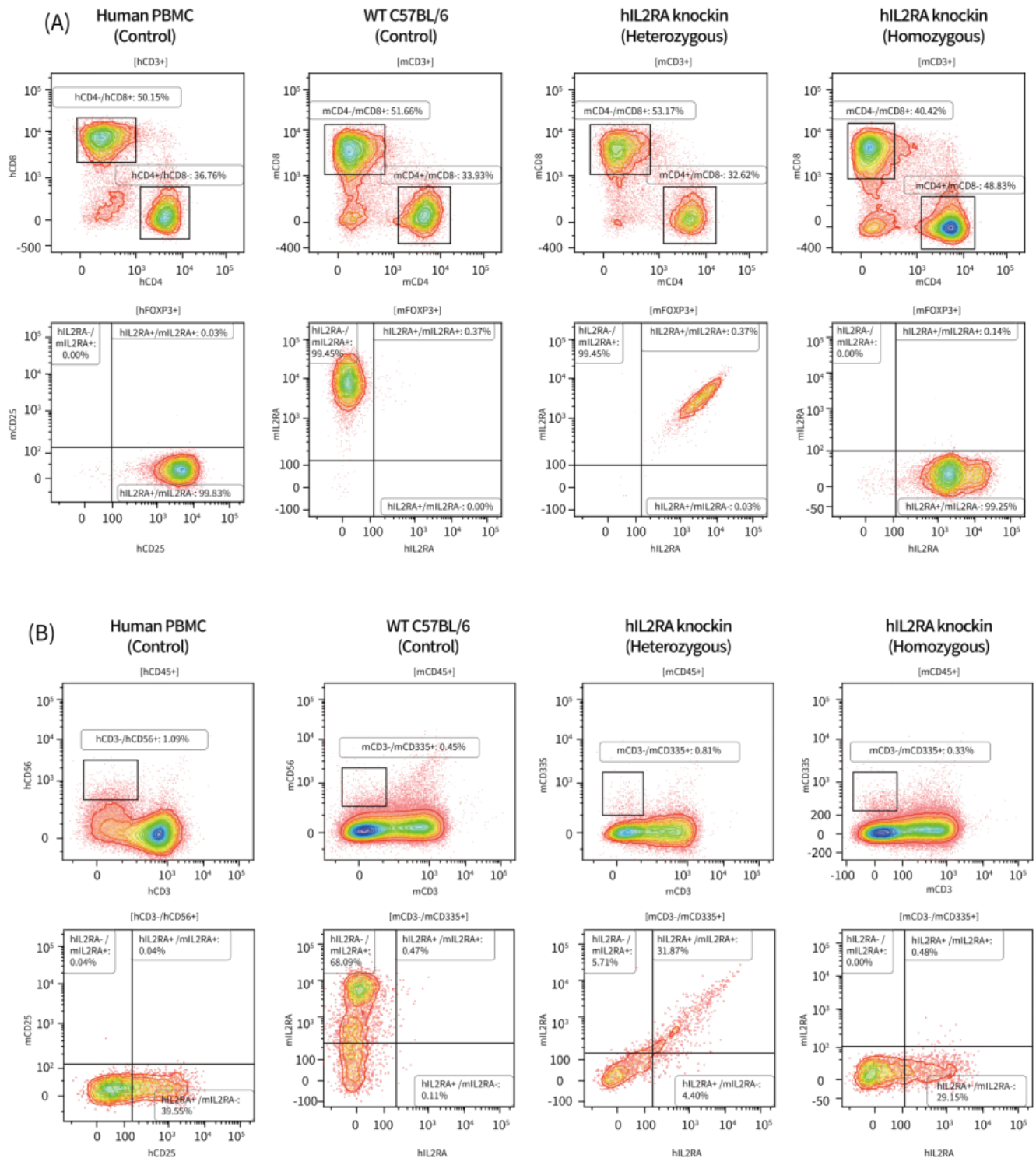


Fig3. Characterization of hIL2RA knockin mice. (Completed in collaboration with CrownBio)

(A) hIL-2RA is highly expressed on activated Tregs in spleen in IL-2RA humanized mouse;
 (B) hIL-2RA is highly expressed on activated NK cells in spleen in IL-2RA humanized mouse.

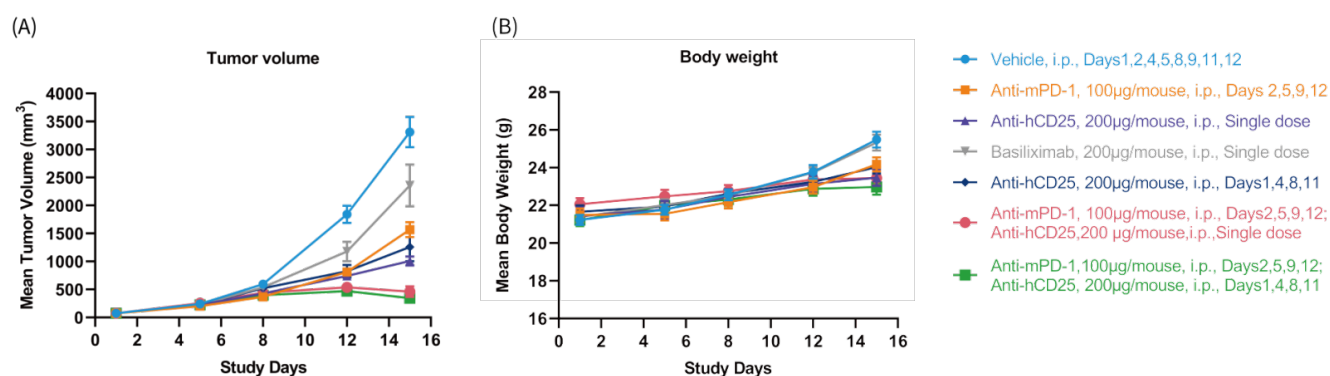


Fig4. *In vivo* efficacy study in hIL-2RA knockin mice engrafted with MC38 syngeneic tumor model. (Completed in collaboration with CrownBio)

(A)Tumor growth curves upon treatment; (B) Body weight change upon treatment.