

hIL2/hIL2RA/hIL2RB/hIL2RG

Nomenclature	C57BL/6Smoc- <i>Il2</i> ^{tm3(hIL2)} <i>Il2ra</i> ^{tm1(hIL2RA)} <i>Il2rg</i> ^{em1(IL2RG)} <i>Il2rb</i> ^{tm1(hIL2RB)Smoc}
Cat. NO.	NM-HU-210415
Strain State	Repository Live

Gene Summary

Gene Symbol IL2	Synonyms	Il-2
	NCBI ID	16183
	MGI ID	96548
	Ensembl ID	ENSMUSG00000027720
	Human Ortholog	IL2
Gene Symbol IL2RA	Synonyms	CD25; IL2r; IL-2R alpha chain; Ly-43
	NCBI ID	16184
	MGI ID	96549
	Ensembl ID	ENSMUSG00000026770
	Human Ortholog	IL2RA
Gene Symbol IL2RB	Synonyms	p70; CD122; IL15Rbeta; IL-2Rbeta; IL-15Rbeta; IL-2/15Rbeta
	NCBI ID	16185
	MGI ID	96550
	Ensembl ID	ENSMUSG00000068227
	Human Ortholog	IL2RB
Gene Symbol IL2RG	Synonyms	gc; p64; [g]c; CD132; gamma(c)
	NCBI ID	16186
	MGI ID	96551
	Ensembl ID	ENSMUSG00000031304
	Human Ortholog	IL2RG

Gene Symbol Il2ra	Synonyms	CD25; Il2r; IL-2R alpha chain; Ly-43
	NCBI ID	16184
	MGI ID	96549
	Ensembl ID	ENSMUSG00000026770
	Human Ortholog	IL2RA

Model Description

hIL2/hIL2RA(NM-HU-200275) was crossed with hIL2RA/hIL2RB/hIL2RG(NM-HU-210414) to generate hIL2/hIL2RA/hIL2RB/hIL2RG mice.

*Literature published using this strain should indicate: hIL2/hIL2RA/hIL2RB/hIL2RG mice (Cat. NO. NM-HU-210415) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

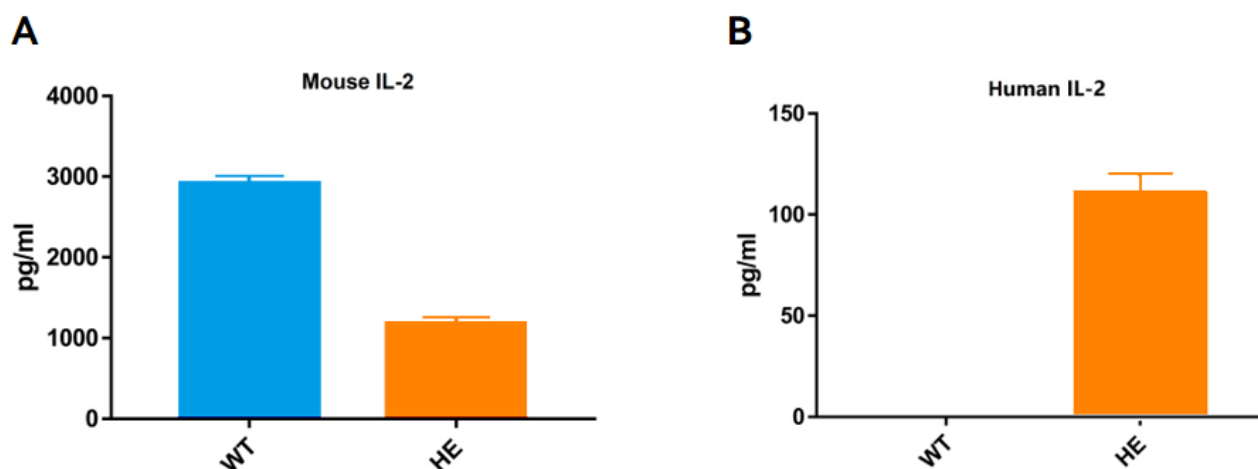


Fig1. Detection of hIL-2 expression by ELISA in the hIL-2 knockin mice (Wild type and heterozygous hIL-2 KI mice were administrated with concanavalin).

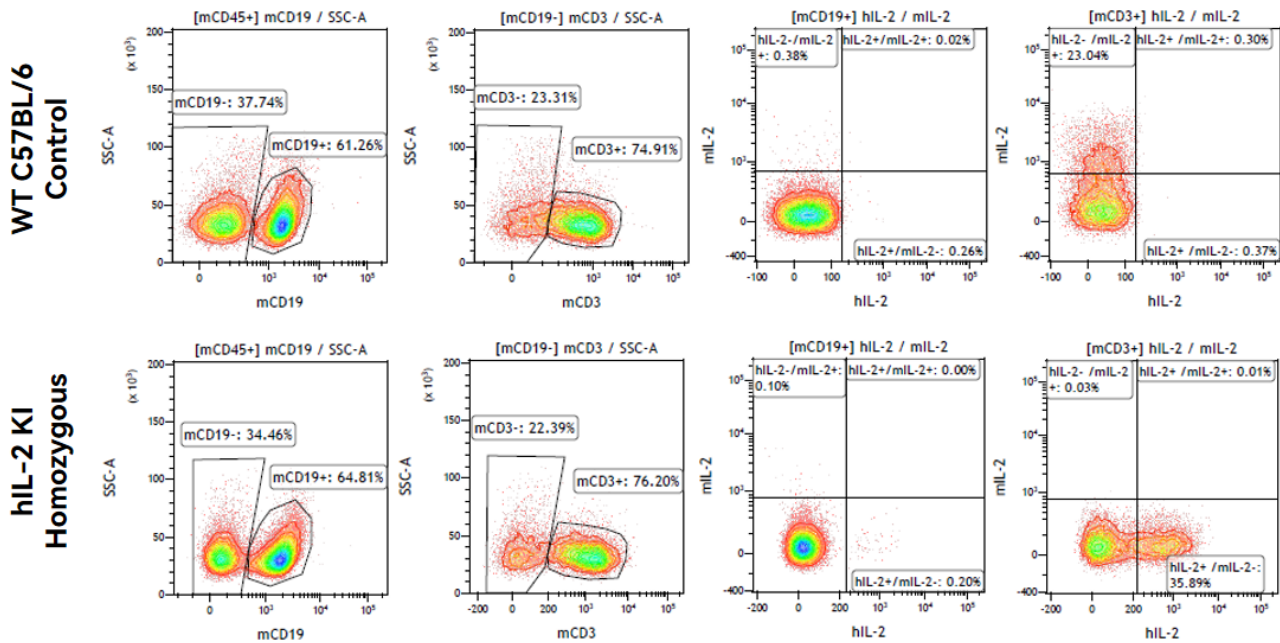


Fig2. Intracellular staining of IL-2 by FACS post stimulation with anti-mCD3/anti-mCD28 (In collaboration with CrownBio).

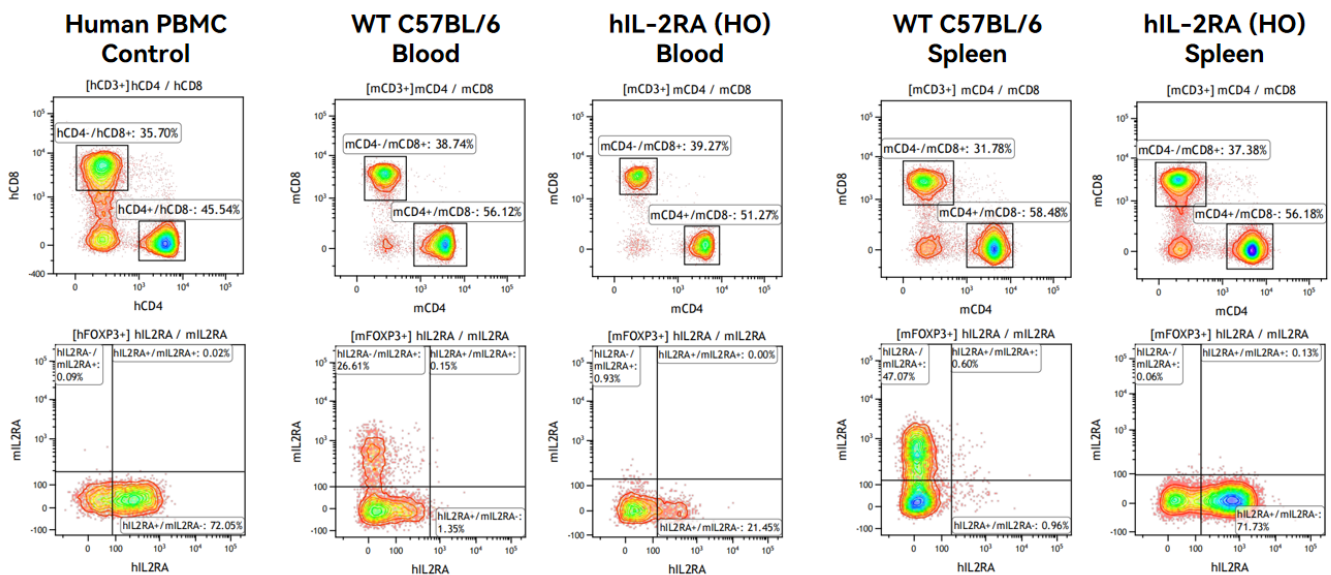


Fig3. IL-2RA humanized mouse expresses hIL-2RA (hCD25) on naïve Treg in blood (In collaboration with CrownBio).

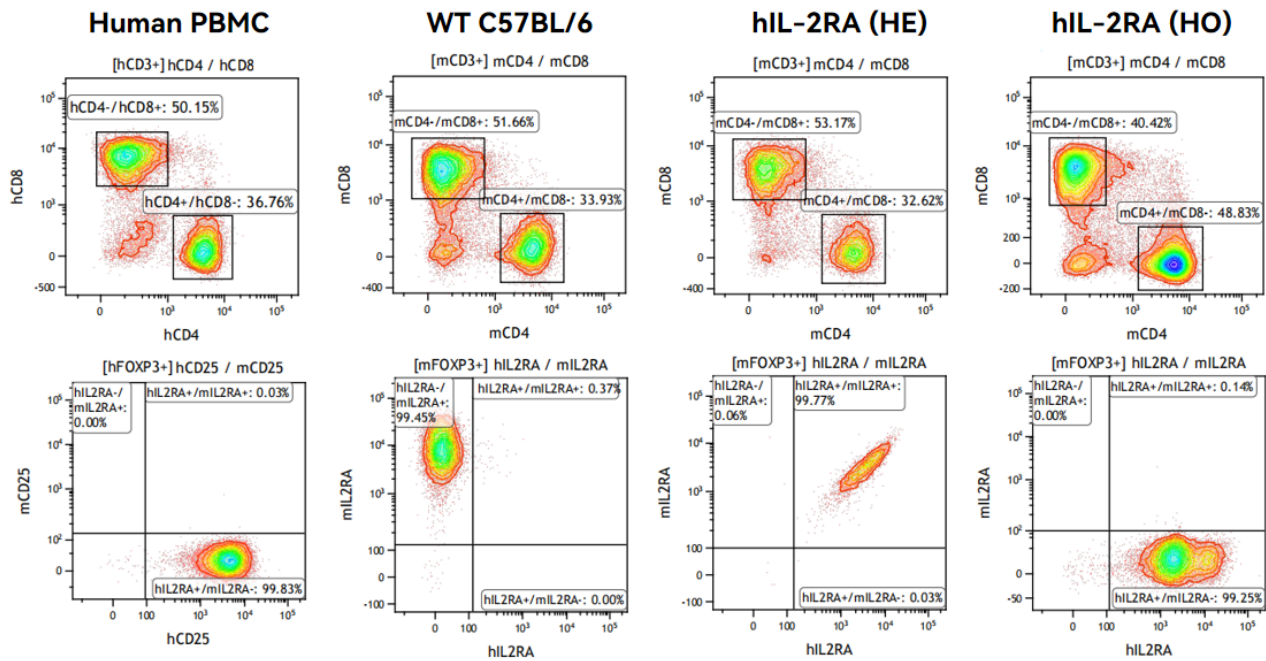


Fig4. hIL-2RA is highly expressed on activated Tregs in spleen in the IL-2RA humanized mouse (In collaboration with CrownBio).

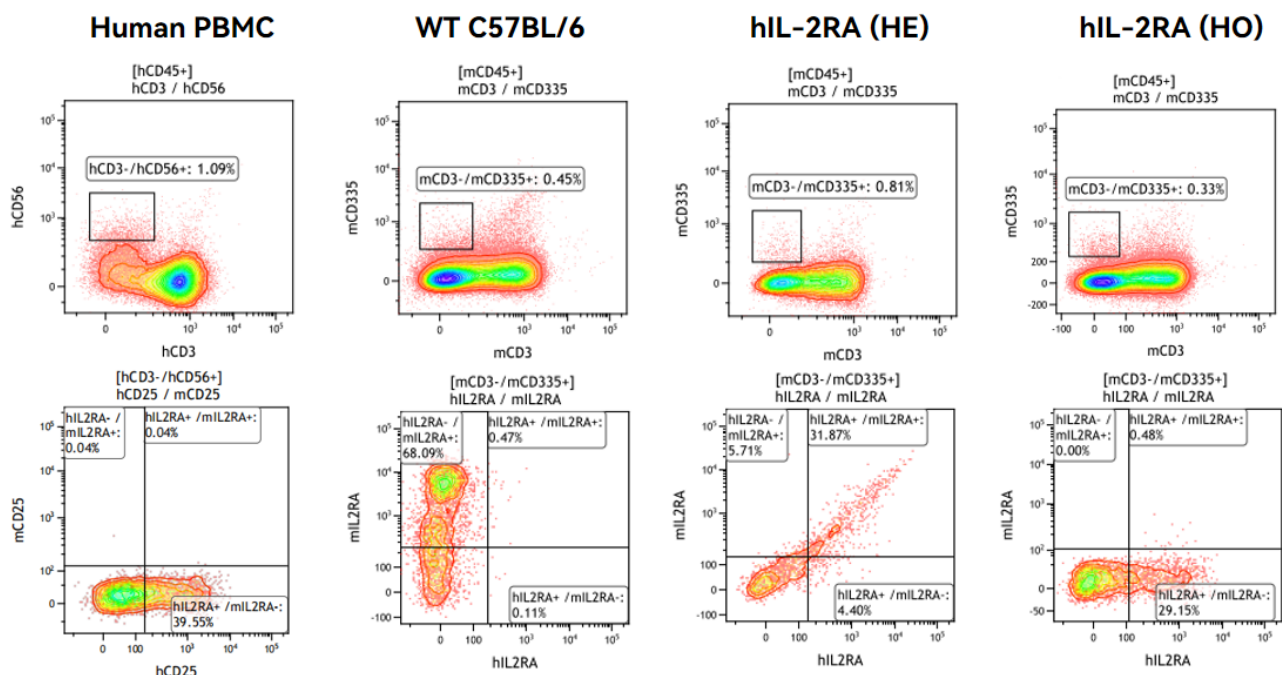


Fig5. hIL-2RA is highly expressed on activated NK cells in spleen in the IL-2RA humanized mouse (In collaboration with CrownBio).

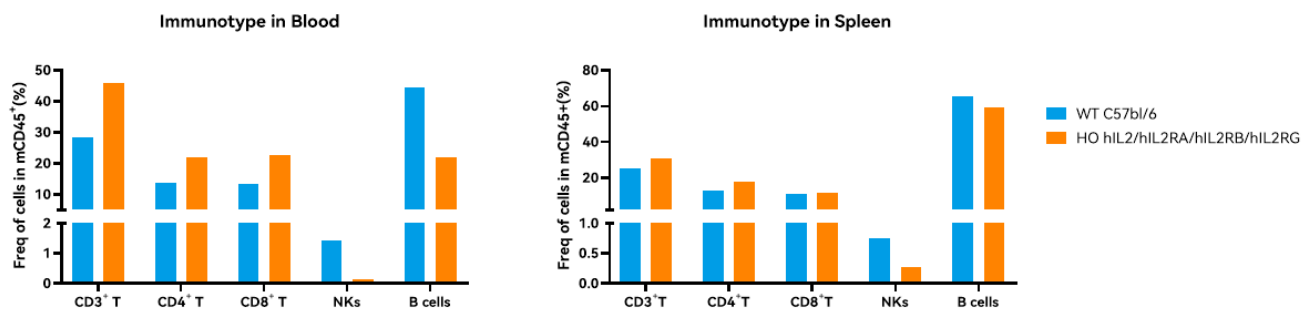


Fig6. Immunotype in hIL2/hIL2RA/hIL2RB/hIL2RG qKI mice.

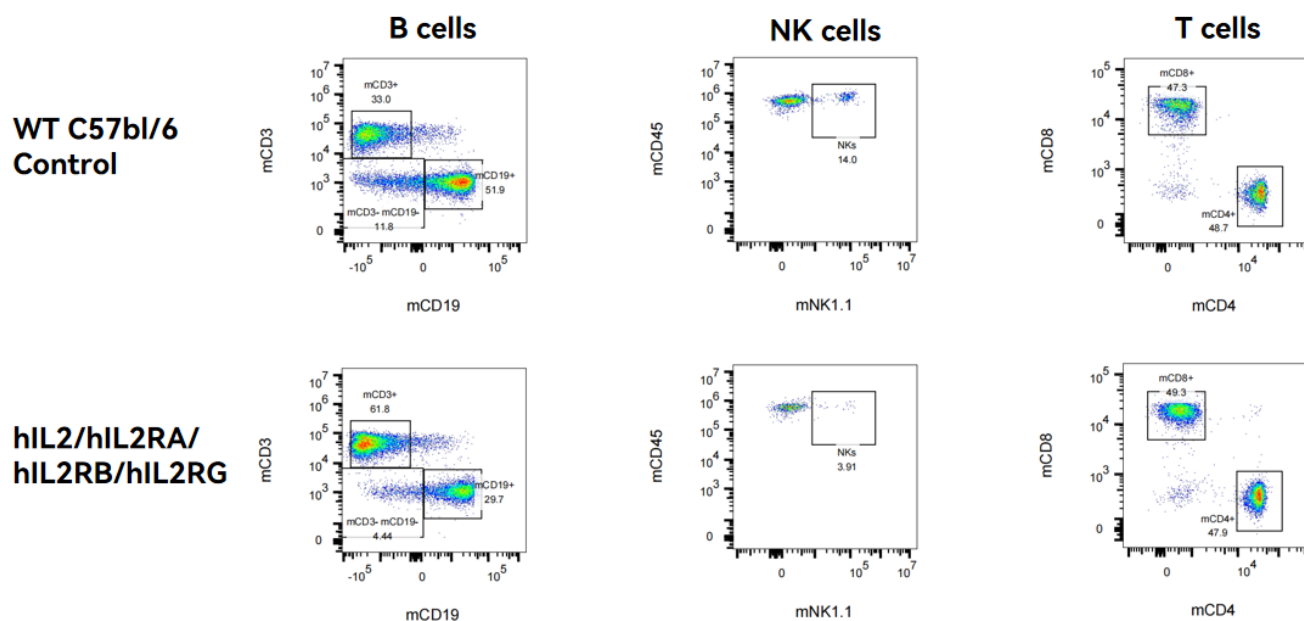


Fig7. Immunotype in hIL2/hIL2RA/hIL2RB/hIL2RG qKI mice in Blood.

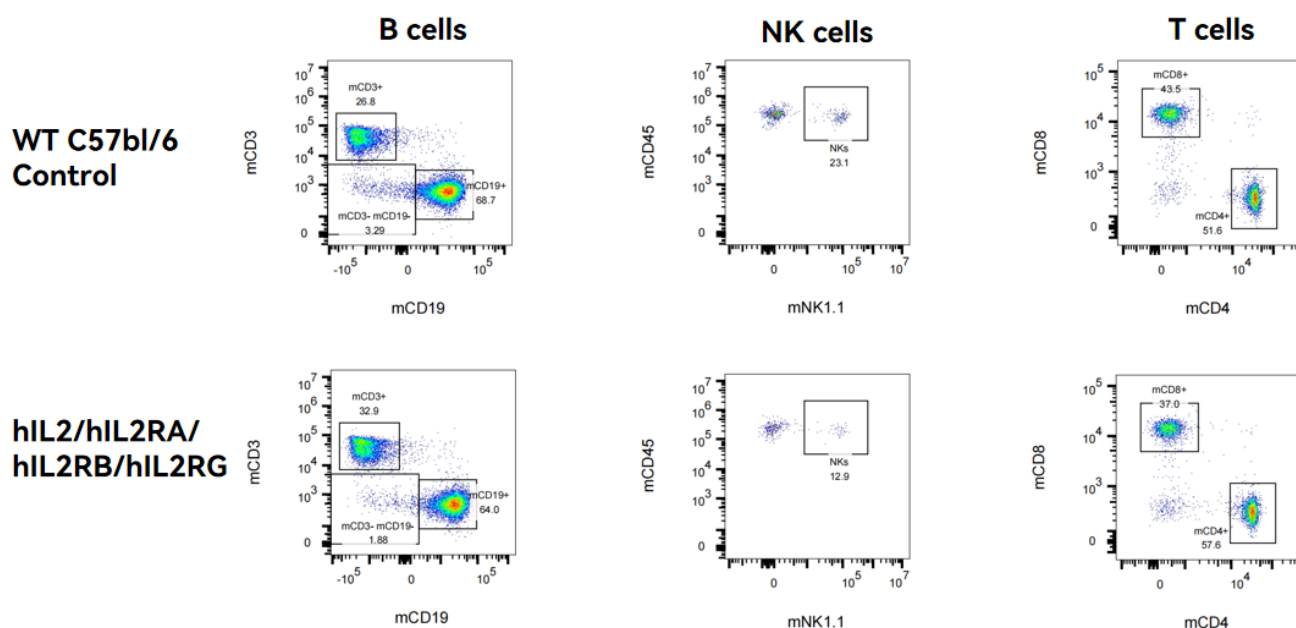


Fig8. Immunotype in hIL2/hIL2RA/hIL2RB/hIL2RG qKI mice in Spleen.

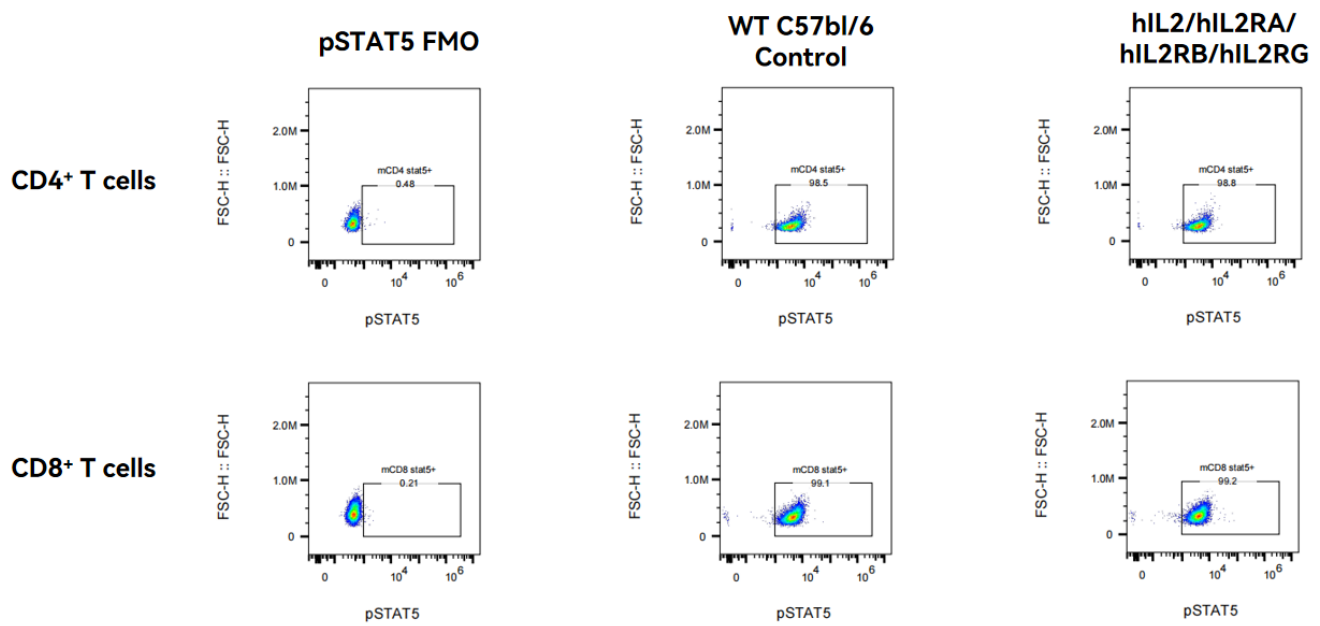


Fig9. Detection of Signaling integrity in hIL2/hIL2RA/hIL2RB/hIL2RG qKI mice.

Note. Splenocytes of C57BL/6 mice were treated with anti-mCD3 and mIL-2(10 ng/ml) for 72h. Splenocytes of hIL2/hIL2RA/hIL2RB/hIL2RG qKI mice were treated with anti-mCD3 and hIL-2(10 ng/ml) for 72h.