

Cd4-IRES-DTRGFP

Nomenclature	C57BL/6Smoc- <i>Cd4</i> ^{em5(IRES-DTRGFP)Smoc}
Cat. NO.	NM-KI-190121
Strain State	Repository Live

Gene Summary

Gene Symbol Cd4	Synonyms	L3T4; Ly-4
	NCBI ID	12504
	MGI ID	88335
	Ensembl ID	ENSMUSG00000023274
	Human Ortholog	CD4

Model Description

A IRES-DTRGFP expression cassette was knocked into the Cd4 gene stop codon site.

Research Application: DTR mouse

*Literature published using this strain should indicate: Cd4-IRES-DTRGFP mice (Cat. NO. NM-KI-190121) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

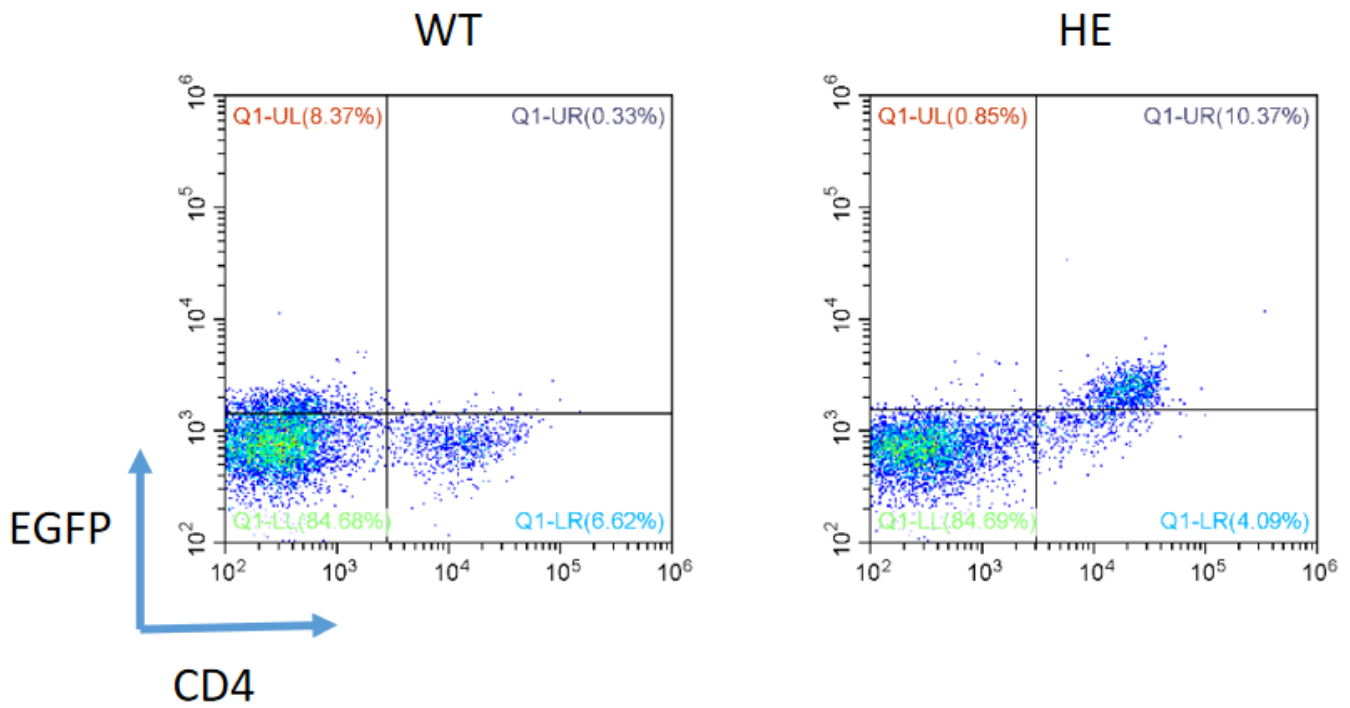


Figure 1. EGFP expression analysis in PBMC of CD4-IRES-DTR-EGFP heterozygous mice by FACS. (In collaboration with CrownBio).

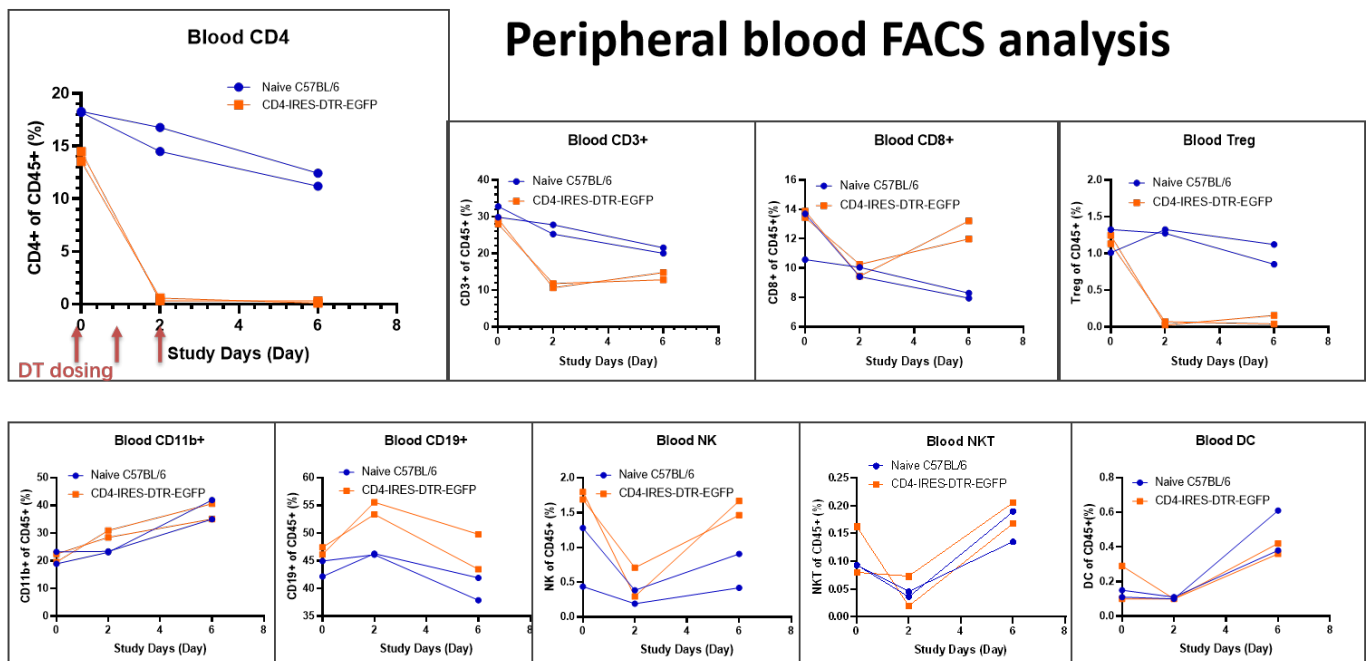


Figure2. The percent of CD4+ T cells and other immune cells in peripheral blood of CD4-IRES-DTR-EGFP mice were detected by FACS. (In collaboration with CrownBio)

The C57BL/6 mice and CD4-IRES-DTR-EGFP mice were injected with diphtheria toxin, the results indicated that CD4+ T cells and Tregs of CD4-IRES-DTR-EGFP mice were depleted and meanwhile the amount of CD8+ T cells increased.

MC38 Tumor Growth Curve

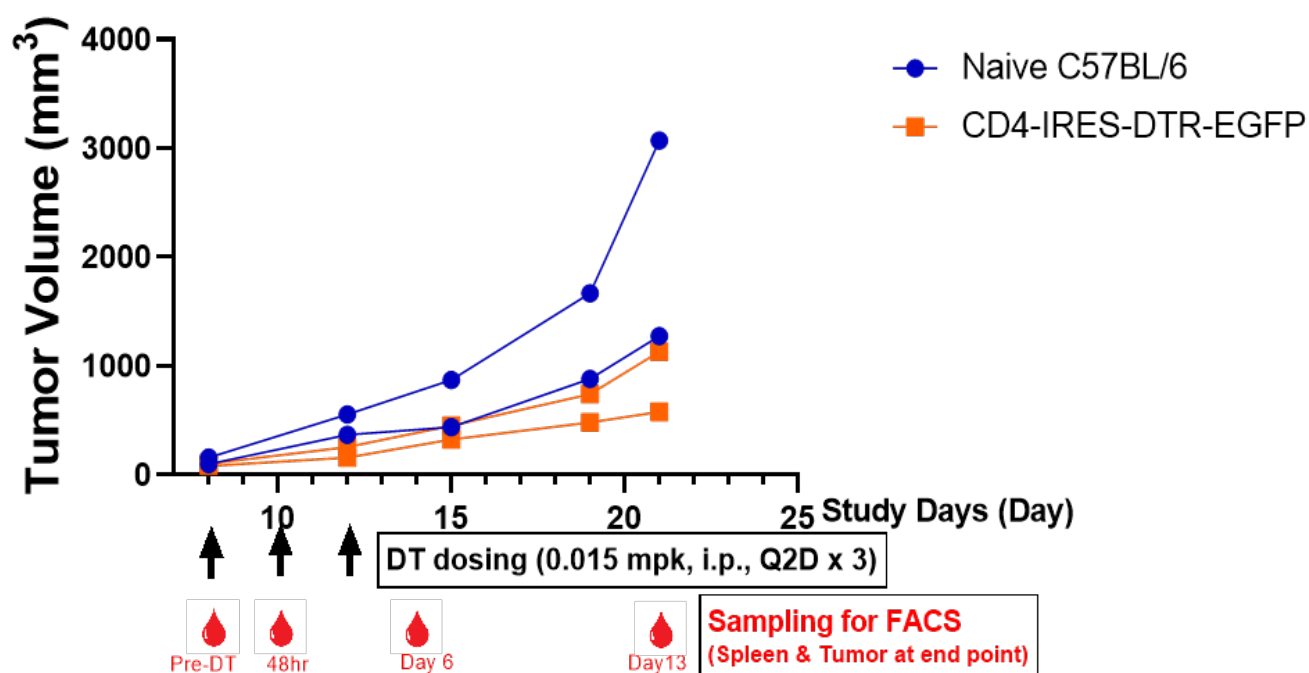


Figure3. The growth of MC38 tumors in CD4-IRES-DTR-EGFP mice and C57BL/6 mice. (In collaboration with CrownBio)

Heterozygous CD4-IRES-DTR-EGFP mice and C57BL/6 mice were inoculated with MC38 colon cancer cells. The CD4-IRES-DTR-EGFP mice were injected with diphtheria toxin once in two days.