

# Cd4-IRES-DTRGFP

系統名	C57BL/6Smoc- <i>Cd4</i> <sup>em5(IRES-DTRGFP)Smoc</sup>
SMOC番号	NM-KI-190121
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Cd4	Synonyms	L3T4; Ly-4
	NCBI ID	<a href="#">12504</a>
	MGI ID	<a href="#">88335</a>
	Ensembl ID	<a href="#">ENSMUSG00000023274</a>
	Human Ortholog	CD4

## 説明

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

**応用分野:** 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..

## 表現型データ

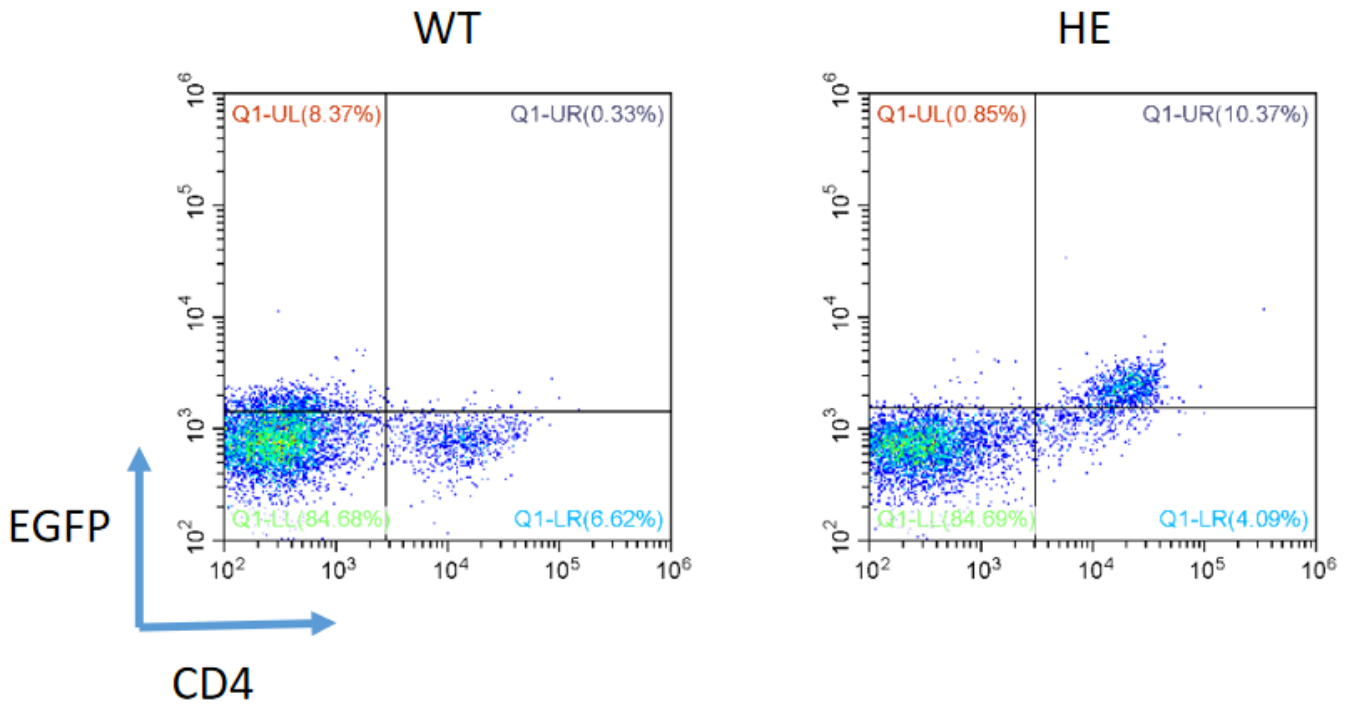


Figure 1. EGFP expression analysis in PBMC of CD4-IRES-DTR-EGFP heterozygous mice by FACS. (In collaboration with CrownBio).

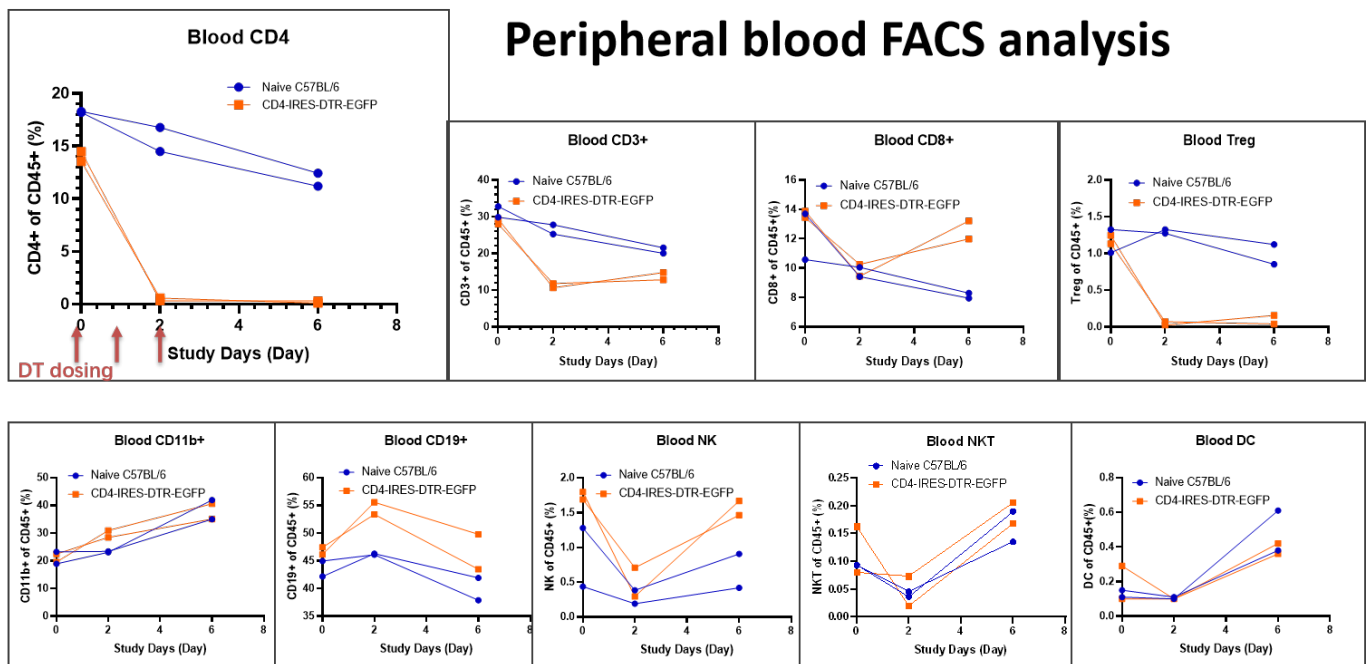


Figure 2. The percent of CD4+ T cells and other immune cells in peripheral blood of CD4-IRES-DTR-EGFP mice were detected by FACS. (In collaboration with CrownBio)

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

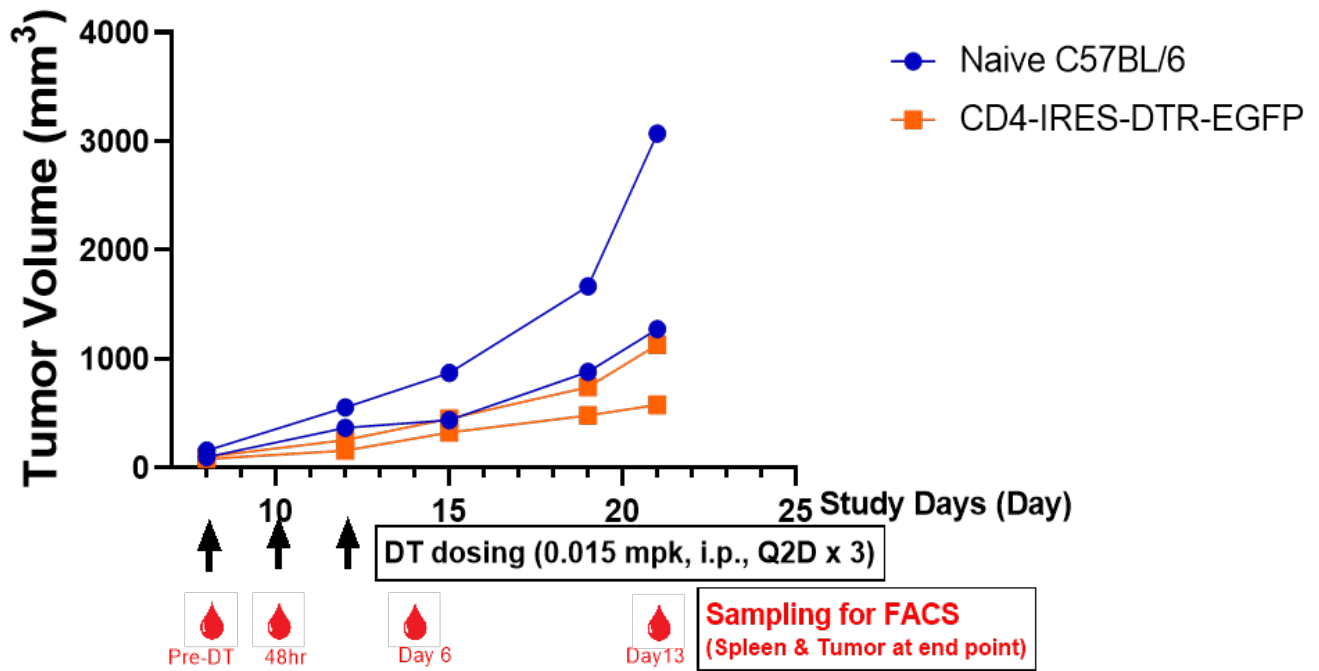


Figure3. The growth of MC38 tumors in CD4-IRES-DTR-EGFP mice and C57BL/6 mice. (In collaboration with CrownBio)

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.