

# Cd4-IRES-DTRGFP

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

## Gene Summary

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

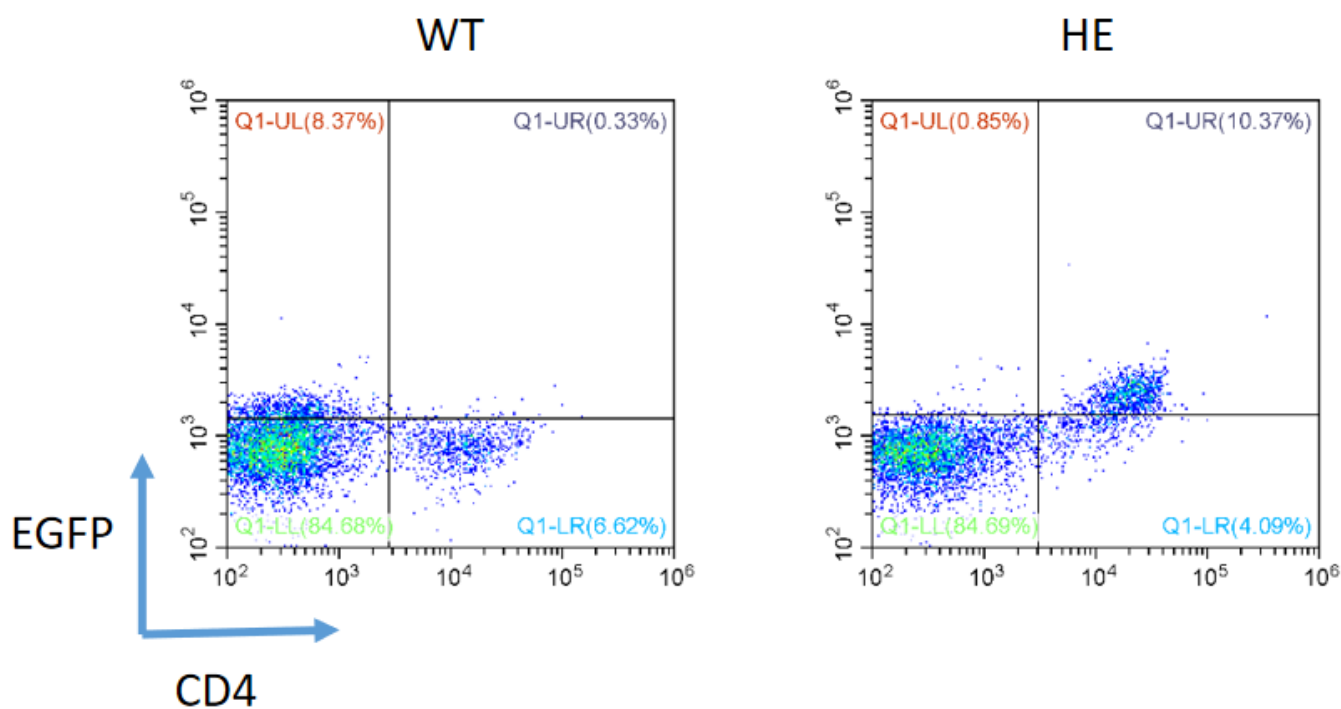


Figure 1. EGFP expression analysis in PBMC of CD4-IRES-DTR-EGFP heterozygous mice by FACS. (In collaboration with CrownBio).

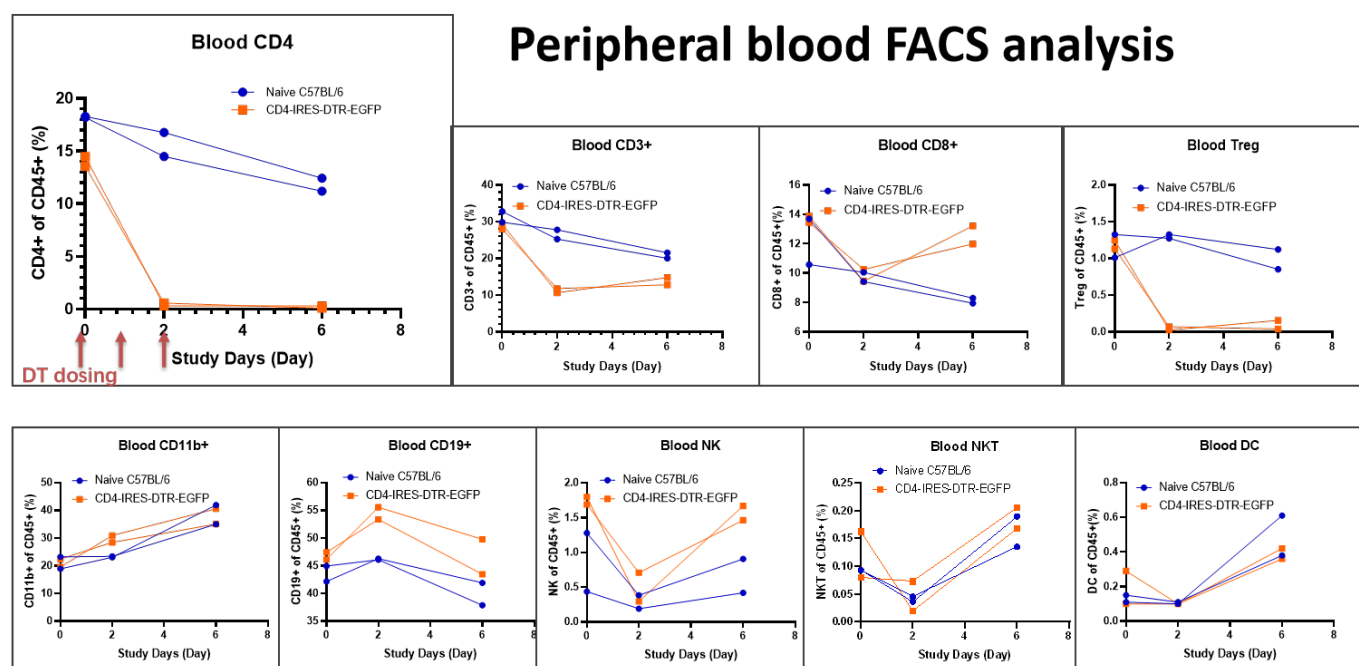


Figure2. The percent of CD4+ T cells and other immune cells in peripheral blood of CD4-IRES-DTR-EGFP mice were detected by FACS. (In collaboration with CrownBio)

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

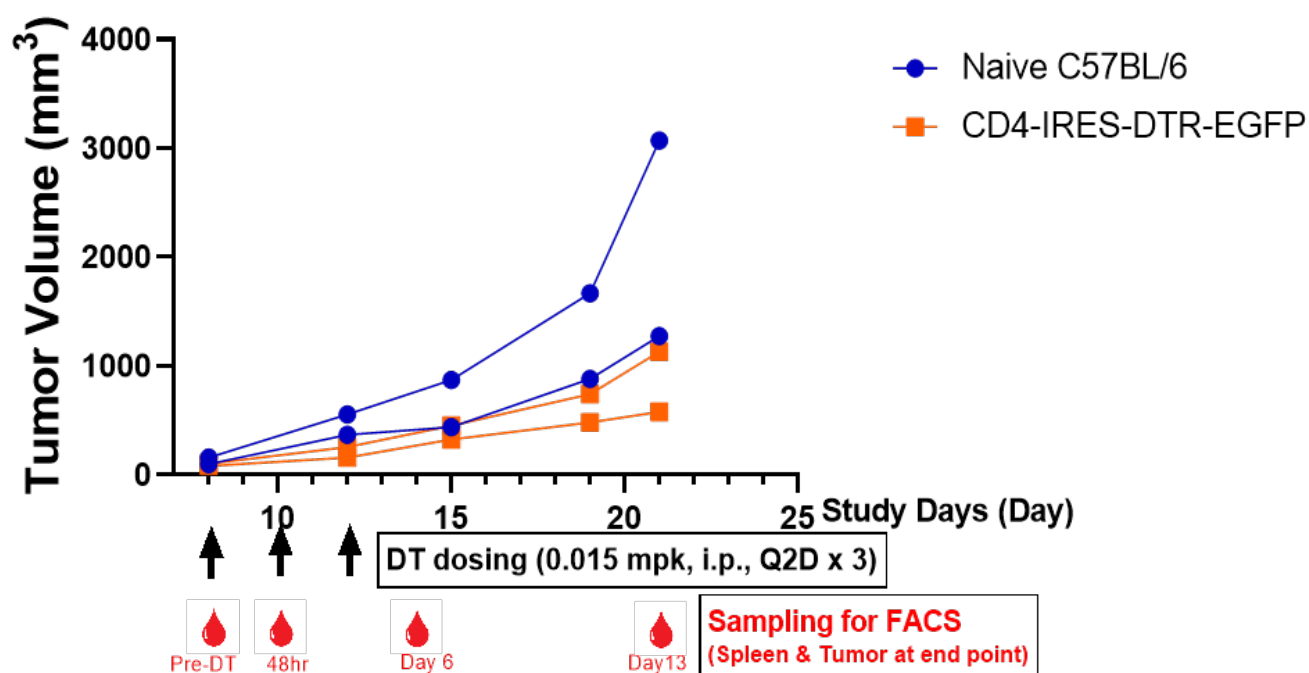


Figure3. The growth of MC38 tumors in CD4-IRES-DTR-EGFP mice and C57BL/6 mice. (In collaboration with CrownBio)

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.