

Cd8a-IRES-DTRGFP

Nomenclature	C57BL/6Smoc- <i>Cd8a</i> ^{em2(IRES-DTRGFP)Smoc}
Cat. NO.	NM-KI-190045
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Cd8a	Synonyms	Ly-2; Ly-B; Ly-35; Lyt-2; BB154331
	NCBI ID	12525
	MGI ID	88346
	Ensembl ID	ENSMUSG00000053977
	Human Ortholog	CD8A

Model Description

A IRES-DTRGFP expression cassette was knocked into the Cd8a gene stop codon site.

Research Application: DTR mouse

*Literature published using this strain should indicate: Cd8a-IRES-DTRGFP mice (Cat. NO. NM-KI-190045) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

EGFP expression

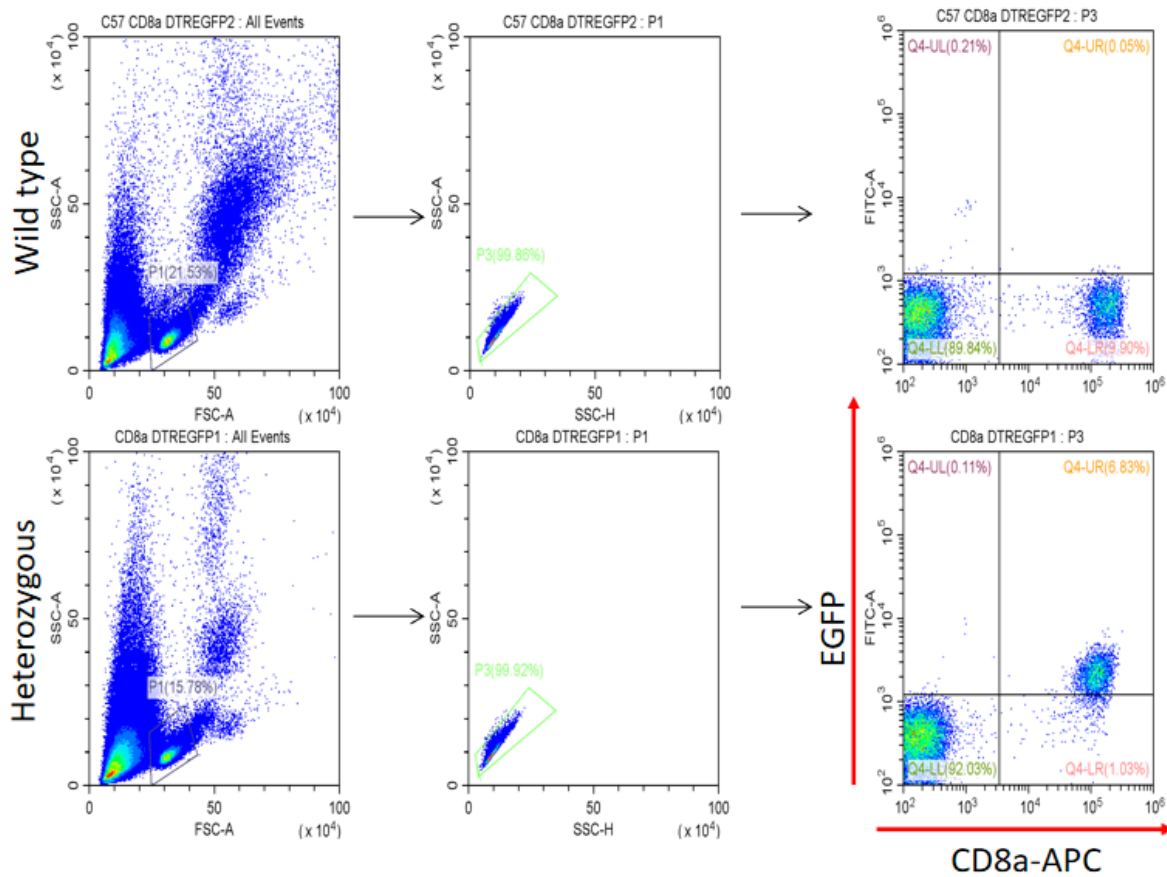


Fig1. Validation EGFP expression in PBMC by FACS.(Cooperation with CrownBio)

Validation data of DTR function

Heterozygous CD8a-IRES-DTRGFP mice and C57BL/6 mice were inoculated with MC38 colon cancer cells. After the tumors grew to 100 mm³, the CD8a-IRES-DTRGFP mice were injected with Diphtheria toxin.

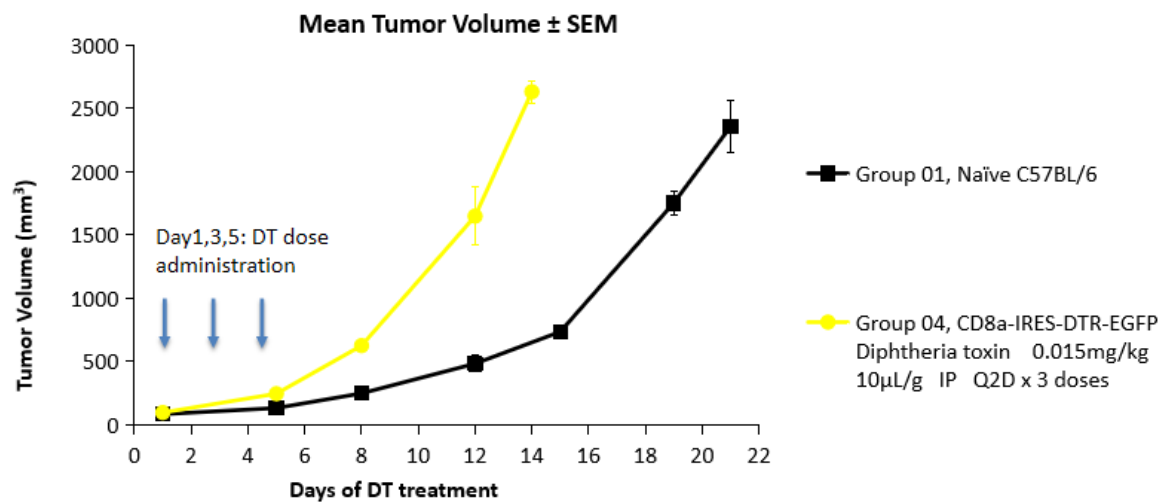


Fig2. The growth of MC38 tumors in Heterozygous CD8a-IRES-DTRGFP mice and C57BL/6 mice. (Cooperation with CrownBio)

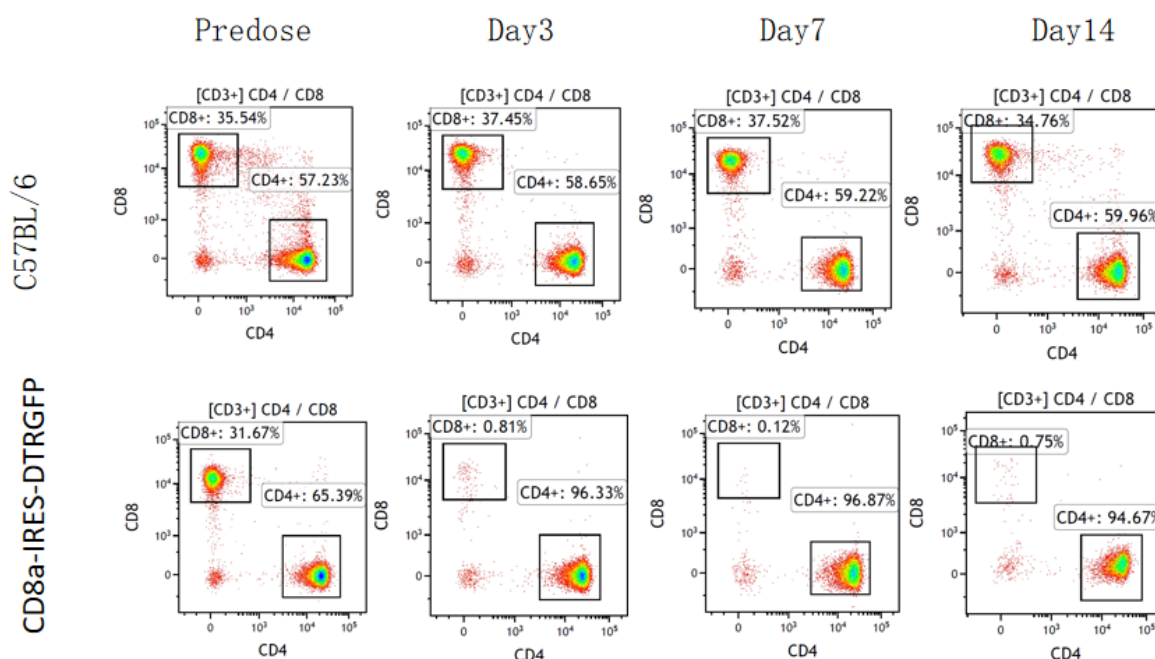


Fig3. The percent of CD8+ T cell in peripheral blood of MC38 tumor-bearing CD8a-IRES-DTRGFP mice and C57BL/6 mice is detected by FACS. (Cooperation with CrownBio)

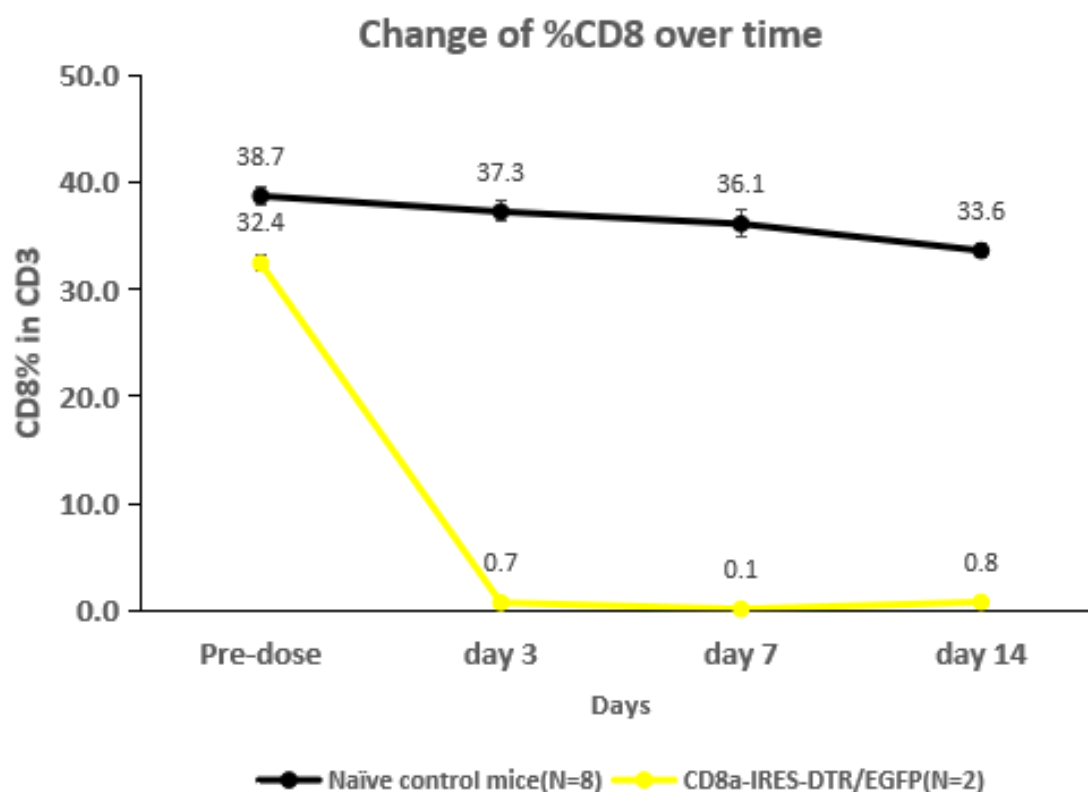


Fig4. The percent of CD8+ T cell in peripheral blood of MC38 tumor-bearing CD8a-IRES-DTRGFP mice and C57BL/6 mice is detected by FACS. Nearly complete depletion was achieved only after 1 dose administration of DT and the depletion effect lasted to day 14. (Cooperation with

CrownBio)
