

# Foxp3-IRES-tdTomato-2A-Cre

系統名	C57BL/6Smoc- <i>Foxp3</i> <sup>em3(IRES-tdTomato-2A-iCre)Smoc</sup>
SMOC番号	NM-KI-190119
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Foxp3	Synonyms	sf; JM2; scurfin
	NCBI ID	<a href="#">20371</a>
	MGI ID	<a href="#">1891436</a>
	Ensembl ID	<a href="#">ENSMUSG00000039521</a>
	Human Ortholog	FOXP3

## 説明

A IRES-tdTomato-2A-Cre expression cassette was knocked into the Foxp3 gene stop codon site. This strain is useful in studying regulatory T cell in autoimmunity, especially in type 1 diabetes.

**応用分野:** Tool Mice

\*Literature published using this strain should indicate: Foxp3-IRES-tdTomato-2A-Cre mice (Cat. NO. NM-KI-190119) were purchased from Shanghai Model Organisms Center, Inc..

## 表現型データ

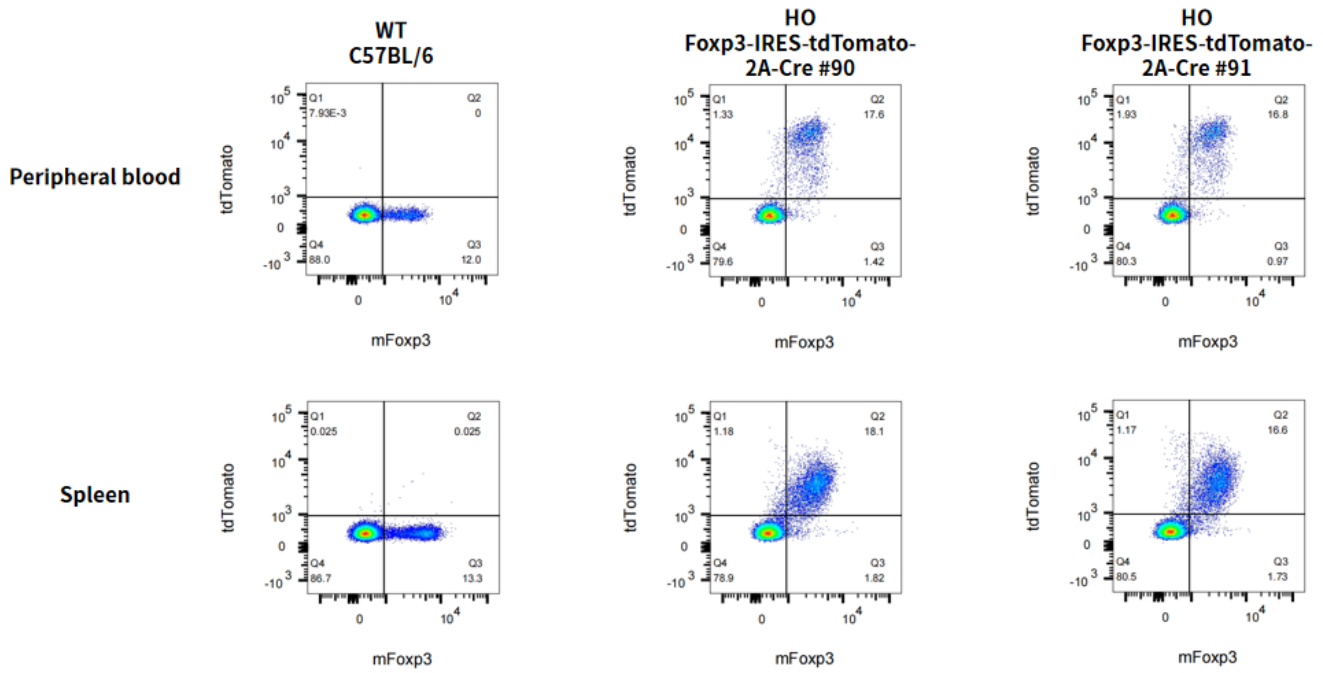


Fig1. Detection of tdTomato expression in C57BL/6 and HO Foxp3-IRES-tdTomato-2A-Cre mice.

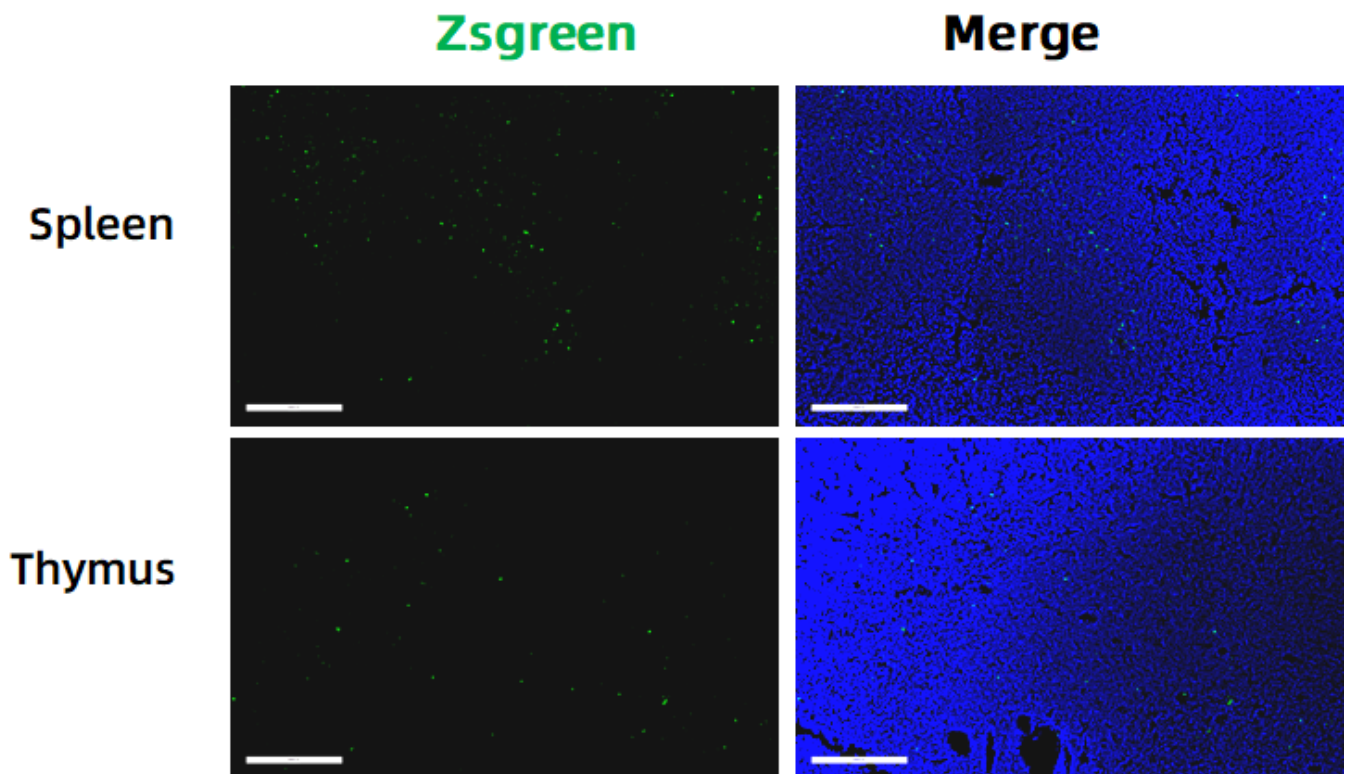


Fig2. Cre-mediated recombination in the spleen and thymus of Foxp3<sup>Cre/+</sup>; Rosa26<sup>ZsGreen/+</sup> mouse. ZsGreen(green) expression can be detected in the spleen and thymus of Foxp3<sup>Cre/+</sup>; Rosa26<sup>ZsGreen/+</sup> mouse, while tdTomato(red) expression can not be detected.

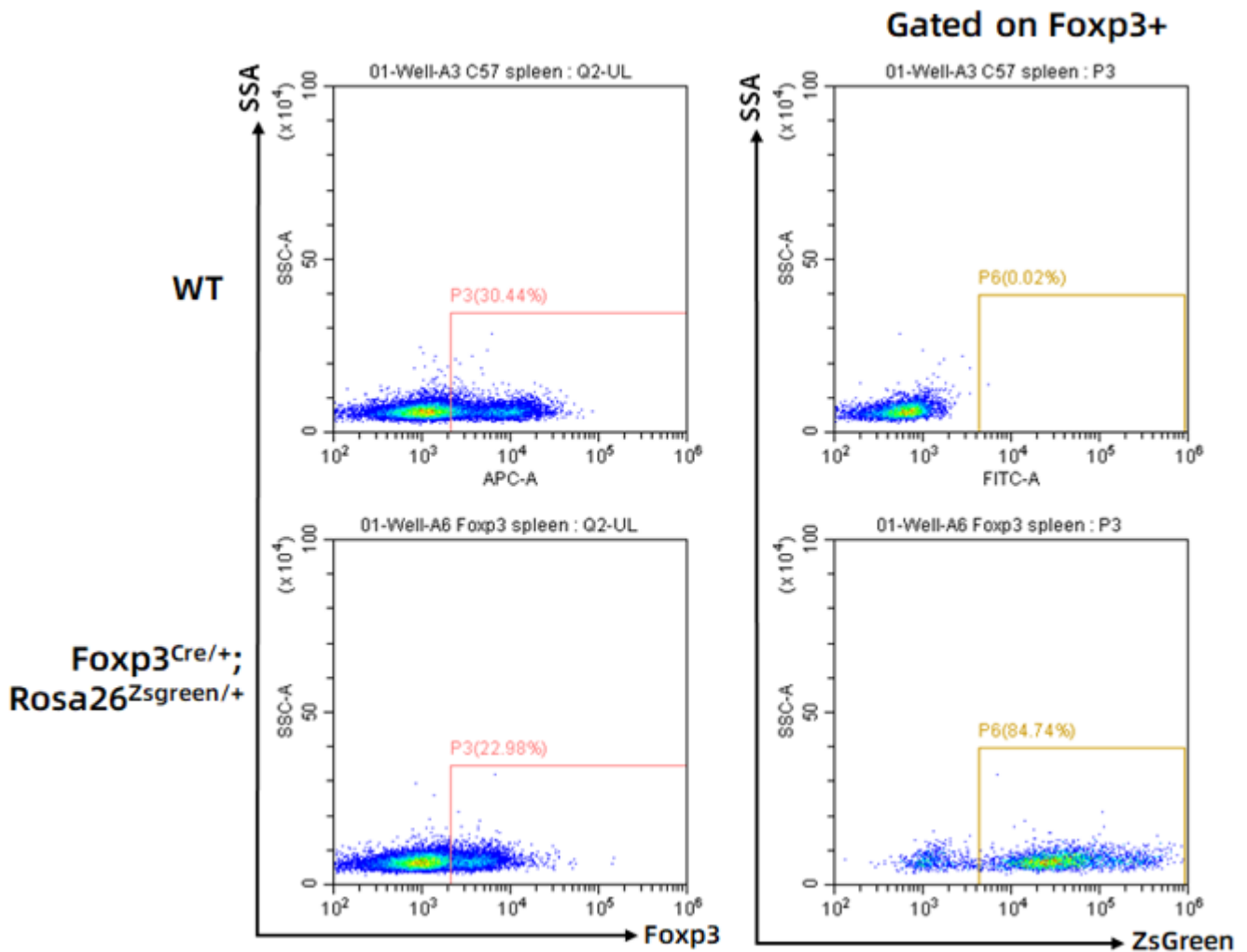


Fig3. Flow cytometry analysis of zsGreen expression in the Foxp3<sup>+</sup> cell derived from the thymus of mice. ZsGreen<sup>+</sup> cells accounted for 37.56% of Foxp3<sup>+</sup> cells in the thymus of Foxp3<sup>Cre/+</sup>; Rosa26<sup>ZsGreen/+</sup> mouse.

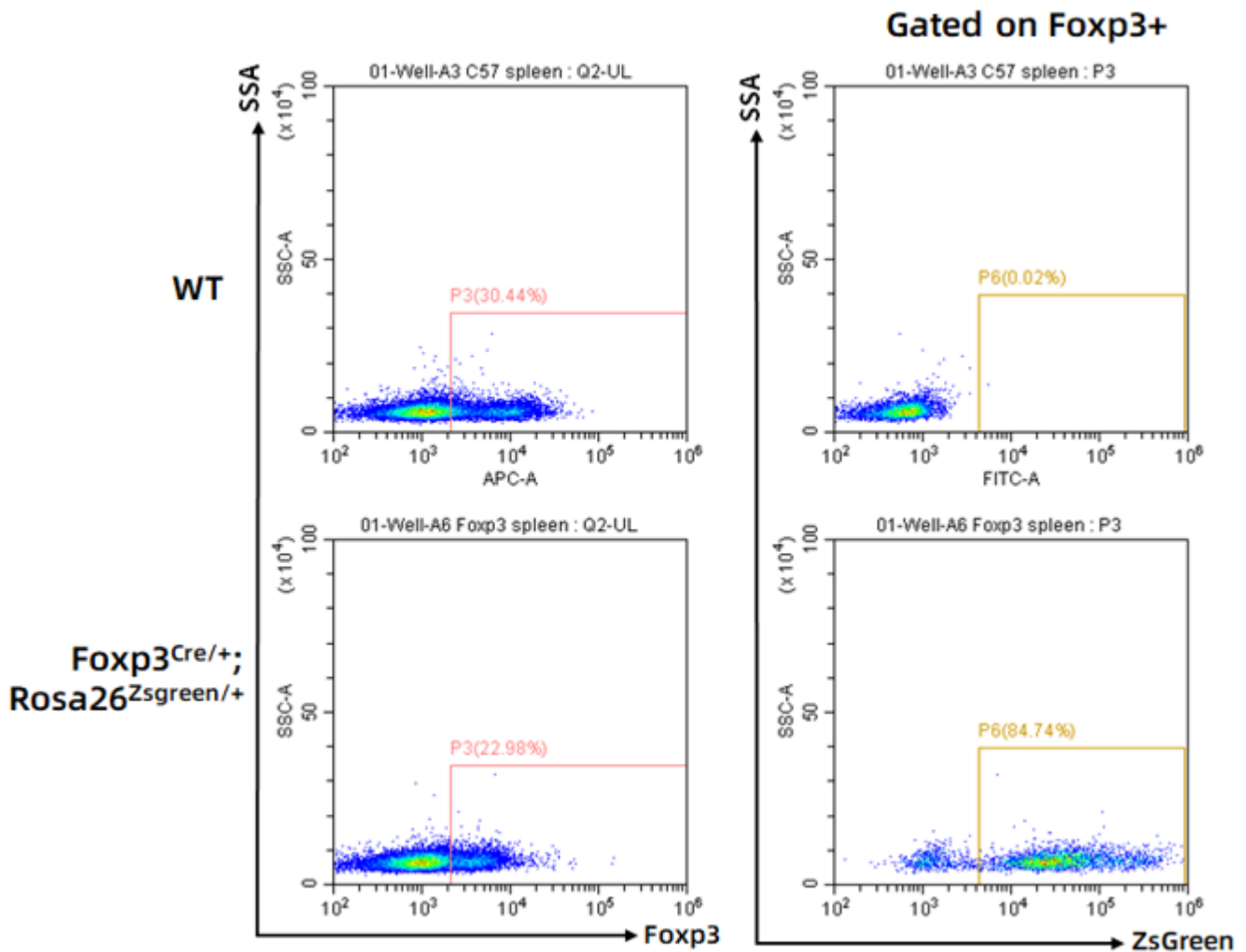


Fig4. Flow cytometry analysis of zsGreen expression in the  $\text{Foxp3}^+$  cell derived from the spleen of mice.  $\text{ZsGreen}^+$  cells accounted for 84.74% of  $\text{Foxp3}^+$  cells in the spleen of *Foxp3<sup>Cre/+</sup>; Rosa26<sup>ZsGreen/+</sup>* mouse.

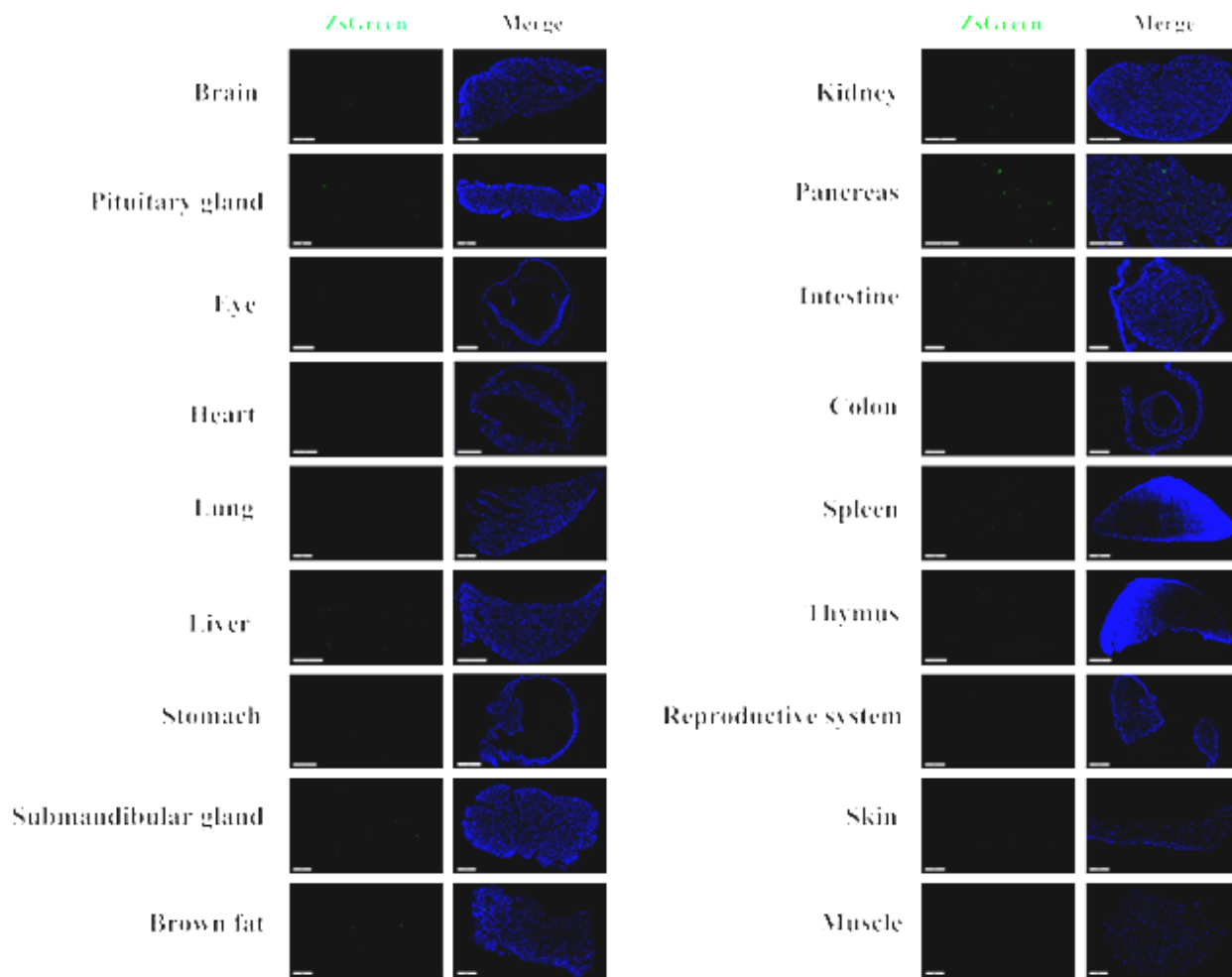


Fig5. ZsGreen was also expressed in the mesenteric lymph nodes, pancreas and liver. There was a small amount of expression in the brain, pituitary gland, retina, lung, stomach, kidney, submandibular gland, brown fat, ovary and skin, and no expression in the heart, colon and muscle. (For more information please contact: 400-728-0660.)