

Rag2-KO

系統名	C57BL/6Smoc- <i>Rag2</i> ^{em2Smoc}
SMOC番号	NM-KO-190429
維持形態	Repository Live

遺伝子の概要

Gene Symbol Rag2	Synonyms	Rag-2
	NCBI ID	19374
	MGI ID	97849
	Ensembl ID	ENSMUSG00000032864
	Human Ortholog	RAG2

説明

Partial exon 3 of Rag2 gene was deleted to generate Rag2 knockout mice. Deletion of this region will cause frameshift and result in loss of function of mouse Rag2 gene.

応用分野: Immunodeficiency,tumor-bearing model

*Literature published using this strain should indicate: Rag2-KO mice (Cat. NO. NM-KO-190429) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Ulcerative Colitis	表現型	MGI:4360989 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tbx21-KO(NM-KO-190157) mice.
	参考文献	Garrett WS, Lord GM, Punit S, Lugo-Villarino G, Mazmanian SK, Ito S, Glickman JN, Glimcher LH, Communicable ulcerative colitis induced by T-bet deficiency in the innate immune system. Cell. 2007 Oct 5;131(1):33-45

<p>Severe Combined Immunodeficiency, Autosomal Recessive, T Cell-Negative, B Cell-Negative, Nk Cell-Positive</p>	<p>表現型</p> <p>MGI:2174910</p>
	<p>参考文献</p> <p>Shinkai Y, Rathbun G, Lam KP, Oltz EM, Stewart V, Mendelsohn M, Charron J, Datta M, Young F, Stall AM, Alt FW, RAG-2-deficient mice lack mature lymphocytes owing to inability to initiate V(D)J rearrangement. Cell. 1992 Mar 6;68(5):855-67</p>

表現型データ

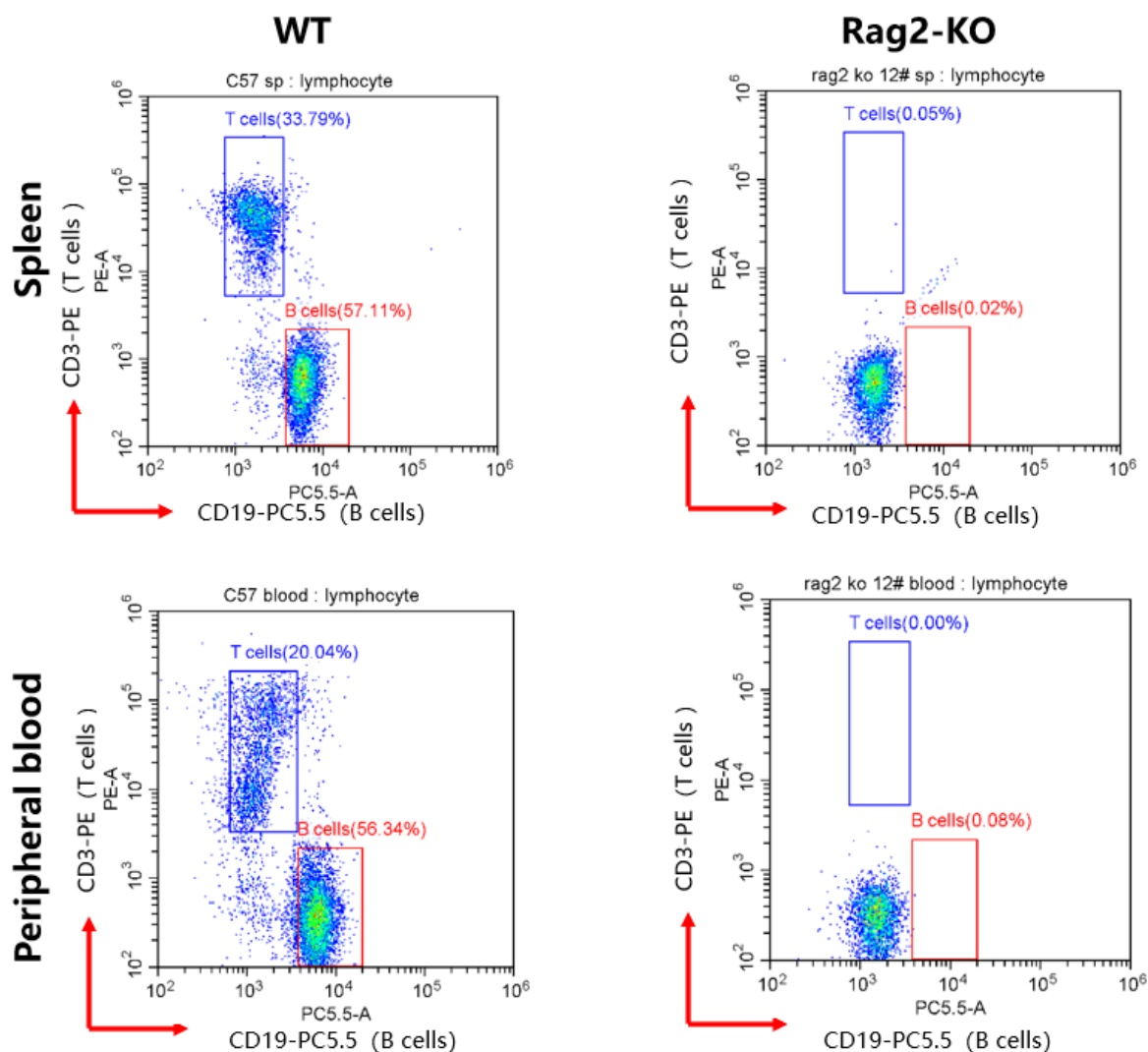


Figure 1. Loss of T,B cells in Rag2(-/-) mice.

Splenocytes and blood cells of Rag2 knockout mice were isolated. Fractions of T and B cells were characterized using flow-cytometry.

出版物

[E4BP4-mediated inhibition of T follicular helper cell differentiation is compromised in autoimmune diseases](#)

References: The Journal of Clinical Investigation

[Induction of Foxp3 and activation of Tregs by HSP gp96 for treatment of autoimmune diseases](#)

References: iScience