

# Tnf-KO

系統名	C57BL/6Smoc- <i>Tnf</i> <sup>em1Smoc</sup>
SMOC番号	NM-KO-00100
維持形態	Repository Live

## 遺伝子の概要

Gene Symbol Tnf	Synonyms	DIF; Tnfa; TNF-a; TNFSF2; Tnlg1f; Tnfsf1a; TNFalpha; TNF-alpha
	NCBI ID	<a href="#">21926</a>
	MGI ID	<a href="#">104798</a>
	Ensembl ID	<a href="#">ENSMUSG00000024401</a>
	Human Ortholog	TNF

## 説明

Exon2-3 of Tnf gene were targeted to generate the Tnf knockout mice.

**応用分野:** Immune and cancer research

\*Literature published using this strain should indicate: Tnf-KO mice (Cat. NO. NM-KO-00100) were purchased from Shanghai Model Organisms Center, Inc..

## 病気の予測

Rheumatoid Arthritis	表現型	<a href="#">MGI:3622060</a>
	参考文献	Kontoyiannis D, Pasparakis M, Pizarro TT, Cominelli F, Kollias G, Impaired on/off regulation of TNF biosynthesis in mice lacking TNF AU- rich elements: implications for joint and gut-associated immunopathologies. <i>Immunity</i> . 1999 Mar;10(3):387-98

<b>rheumatoid arthritis</b>	<b>表現型</b>	<a href="#">MGI:3622062</a>
	<b>参考文献</b>	Kontoyiannis D, Pasparakis M, Pizarro TT, Cominelli F, Kollias G, Impaired on/off regulation of TNF biosynthesis in mice lacking TNF AU- rich elements: implications for joint and gut-associated immunopathologies. <i>Immunity</i> . 1999 Mar;10(3):387-98
<b>Spondyloarthropathy</b>	<b>表現型</b>	<a href="#">MGI:3629514</a>
	<b>参考文献</b>	Sakkou M, Chouvardas P, Ntari L, Prados A, Moreth K, Fuchs H, Gailus-Durner V, Hrabe de Angelis M, Denis MC, Karagianni N, Kollias G, Mesenchymal TNFR2 promotes the development of polyarthritis and comorbid heart valve stenosis. <i>JCI Insight</i> . 2018 Apr 5;3(7)

## 表現型データ

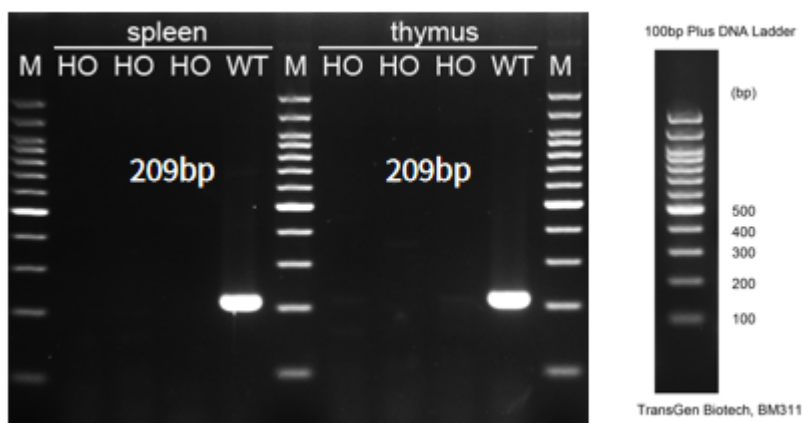


Fig.1 Detection of TNF expression in spleen and thymus by RT-PCR.

Wild type: only one band at 209 bp with primers F1/R1(mTnf).

Abbr. M, DNA marker; HO, homozygous; WT, wild type.

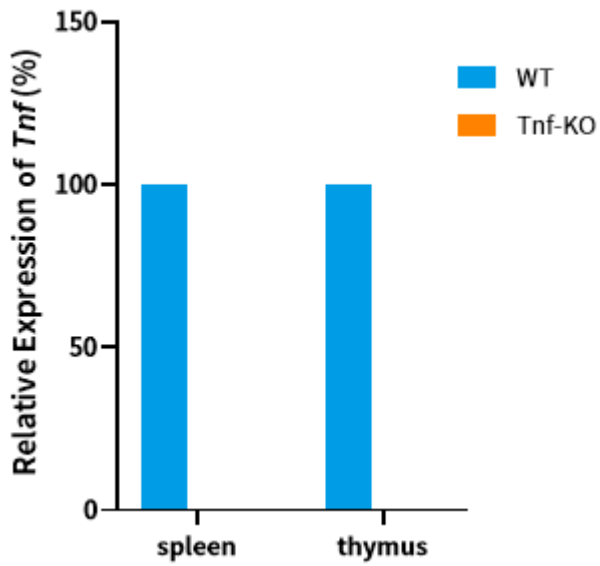


Fig.2 Detection of mTnf expression in spleen and thymus by Q-PCR.

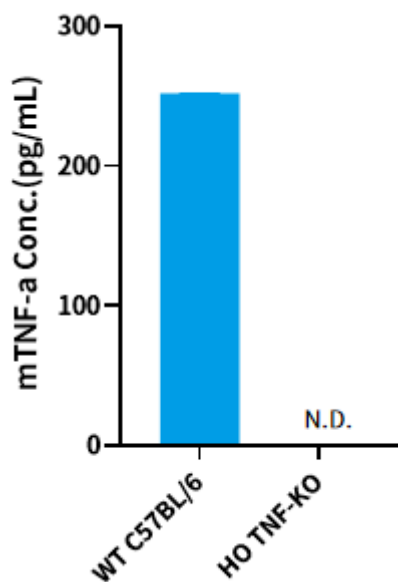


Fig.3 Detection of mTNF-a expression in serum by ELISA (male, 8wks, n=2).

Abbr. HO, Homozygous; WT, wild type.

Note. TNF-KO and C57BL/6 mice were i.p. injected with LPS.