

# Fas-KO(BALB/c)

**Nomenclature** BALB/cAnSmoc-*Fas*<sup>em2Smoc</sup>

**Cat. NO.** NM-KO-191206

**Strain State** Embryo cryopreservation

## Gene Summary

<b>Gene Symbol</b> <b>Fas</b>	<b>Synonyms</b>	lpr, APO1, APT1, CD95, TNFR6, Tnfrsf6, AI196731
	<b>NCBI ID</b>	<a href="#">14102</a>
	<b>MGI ID</b>	<a href="#">95484</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000024778</a>
	<b>Human Ortholog</b>	FAS

## Model Description

Exon 2 of Fas gene was deleted to generate Fas knockout mice.

**Research Application:** Immune-related

\*Literature published using this strain should indicate: Fas-KO(BALB/c) mice (Cat. NO. NM-KO-191206) were purchased from Shanghai Model Organisms Center, Inc..

## Disease Connection

<b>Systemic Lupus Erythematosus</b>	<b>Phenotype(s)</b>	<a href="#">MGI:3800222</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tnfrsf9-KO(2)(NM-KO-210216) mice.
	<b>Reference(s)</b>	Ohta A, Sekimoto M, Sato M, Koda T, Nishimura S, Iwakura Y, Sekikawa K, Nishimura T, Indispensable role for TNF-alpha and IFN-gamma at the effector phase of liver injury mediated by Th1 cells specific to hepatitis B virus surface antigen. J Immunol. 2000 Jul 15;165(2):956-61

	<b>Phenotype(s)</b> <a href="#">MGI:5478500</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tlr9-KO(NM-KO-190168) mice.
<b>Systemic Lupus Erythematosus</b>	<b>Reference(s)</b> Christensen SR, Shupe J, Nickerson K, Kashgarian M, Flavell RA, Shlomchik MJ, Toll-like receptor 7 and TLR9 dictate autoantibody specificity and have opposing inflammatory and regulatory roles in a murine model of lupus. <i>Immunity</i> . 2006 Sep;25(3):417-28
	<b>Phenotype(s)</b> <a href="#">MGI:4943704</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Il27ra-KO(NM-KO-190496) mice.
<b>Membranous Glomerulonephritis</b>	<b>Reference(s)</b> Shimizu S, Sugiyama N, Masutani K, Sadanaga A, Miyazaki Y, Inoue Y, Akahoshi M, Katafuchi R, Hirakata H, Harada M, Hamano S, Nakashima H, Yoshida H, Membranous glomerulonephritis development with Th2-type immune deviations in MRL/lpr mice deficient for IL-27 receptor (WSX-1). <i>J Immunol</i> . 2005 Dec 1;175(11):7185-92
	<b>Phenotype(s)</b> <a href="#">MGI:3665495</a> Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ccr2-KO(NM-KO-190018) mice.
<b>Systemic Lupus Erythematosus</b>	<b>Reference(s)</b> de Lema GP, Maier H, Franz TJ, Escribese M, Chilla S, Segerer S, Camarasa N, Schmid H, Banas B, Kalaydjiev S, Busch DH, Pfeffer K, Mampaso F, Schlondorff D, Luckow B, Chemokine receptor Ccr2 deficiency reduces renal disease and prolongs survival in MRL/lpr lupus-prone mice. <i>J Am Soc Nephrol</i> . 2005 Dec;16(12):3592-601
	<b>Phenotype(s)</b> <a href="#">MGI:2450098</a> <b>Reference(s)</b> Adachi M, Suematsu S, Suda T, Watanabe D, Fukuyama H, Ogasawara J, Tanaka T, Yoshida N, Nagata S, Enhanced and accelerated lymphoproliferation in Fas-null mice. <i>Proc Natl Acad Sci U S A</i> . 1996 Mar 5;93(5):2131-6
<b>Autoimmune Lymphoproliferative Syndrome</b>	

## Validation Data

No data

