

Fas-KO(BALB/c)

Nomenclature	BALB/cAnSmoc- <i>Fas</i> ^{em2Smoc}
Cat. NO.	NM-KO-191206
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Fas	Synonyms	lpr, APO1, APT1, CD95, TNFR6, Tnfrsf6, AI196731
	NCBI ID	14102
	MGI ID	95484
	Ensembl ID	ENSMUSG00000024778
	Human Ortholog	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

Systemic Lupus Erythematosus	Phenotype(s)	MGI:3800222 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tnfrsf9-KO(2)(NM-KO-210216) mice.
	Reference(s)	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

Systemic Lupus Erythematosus	Phenotype(s)	MGI:5478500 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Tlr9-KO(NM-KO-190168) mice.
	Reference(s)	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. Immunity. 2006 Sep;25(3):417-28
Membranous Glomerulonephritis	Phenotype(s)	MGI:4943704 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Il27ra-KO(NM-KO-190496) mice.
	Reference(s)	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). J Immunol. 2005 Dec 1;175(11):7185-92
Systemic Lupus Erythematosus	Phenotype(s)	MGI:3665495 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ccr2-KO(NM-KO-190018) mice.
	Reference(s)	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. J Am Soc Nephrol. 2005 Dec;16(12):3592-601
Autoimmune Lymphoproliferative Syndrome	Phenotype(s)	MGI:2450098
	Reference(s)	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. Proc Natl Acad Sci U S A. 1996 Mar 5;93(5):2131-6

Validation Data

No data

