

Pd-1-KO

Nomenclature	C57BL/6Smoc- <i>Pdcd1</i> ^{em3Smoc}
Cat. NO.	NM-KO-190423
Strain State	Repository Live

Gene Summary

Gene Symbol Pdc1	Synonyms	PD-1 Pdc1 Ly101
	NCBI ID	18566
	MGI ID	104879
	Ensembl ID	ENSMUSG00000026285
	Human Ortholog	PDCD1

Model Description

The Pdc1 knockout mouse model was generated by knocking out the exon2-4 region of the Pdc1.

Research Application: Immune-related

*Literature published using this strain should indicate: Pd-1-KO mice (Cat. NO. NM-KO-190423) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Cystitis	Phenotype(s)	MGI:5574062 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Fcgr2b-KO(3)(NM-KO-210279) mice.
	Reference(s)	Sugino Y, Nishikawa N, Yoshimura K, Kuno S, Hayashi Y, Yoshimura N, Okazaki T, Kanematsu A, Ogawa O, BALB/c-Fcgr2bPdcd1 mouse expressing anti-urothelial antibody is a novel model of autoimmune cystitis. Sci Rep. 2012;2:317

Dilated Cardiomyopathy	Phenotype(s)	MGI:3054645
	Reference(s)	Nishimura H, Okazaki T, Tanaka Y, Nakatani K, Hara M, Matsumori A, Sasayama S, Mizoguchi A, Hiai H, Minato N, Honjo T, Autoimmune dilated cardiomyopathy in PD-1 receptor-deficient mice. Science. 2001 Jan 12;291(5502):319-22
Systemic Lupus Erythematosus	Phenotype(s)	MGI:3054643
	Reference(s)	Nishimura H, Minato N, Nakano T, Honjo T, Immunological studies on PD-1 deficient mice: implication of PD-1 as a negative regulator for B cell responses. Int Immunol. 1998 Oct;10(10):1563-72

Validation Data

No data