Trp53-KO(2)

品系全名	C57BL/6Smoc-*Trp53*^{em5Smoc}
目录号	NM-KO-191203
品系状态	胚胎冻存

基因信息

基因名 **Trp53**	**基因曾用名**	bbl; bfy; bhy; p44; p53; Tp53
	NCBI ID	22059
	MGI ID	98834
	Ensembl ID	ENSMUSG00000059552
	人类同源基因	TRP53

品系描述

敲除Trp53基因exon 5-7，建立Trp53基因敲除小鼠模型。

应用领域：肿瘤研究

*使用本品系发表的文献需注明: Trp53-KO(2) mice (Cat. NO. NM-KO-191203) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

Li-Fraumeni综合征 **Li-Fraumeni Syndrome**	**近似模型的表型**	MGI:2174783
	参考文献	Jacks T, Remington L, Williams BO, Schmitt EM, Halachmi S, Bronson RT, Weinberg RA, Tumor spectrum analysis in p53-mutant mice. Curr Biol. 1994 Jan 1;4(1):1-7
Li-Fraumeni综合征 **Li-Fraumeni Syndrome**	**近似模型的表型**	MGI:3584464
	参考文献	Olive KP, Tuveson DA, Ruhe ZC, Yin B, Willis NA, Bronson RT, Crowley D, Jacks T, Mutant p53 gain of function in two mouse models of Li-Fraumeni syndrome. Cell. 2004 Dec 17;119(6):847-60

恶性星形细胞瘤 Malignant Astrocytoma	**近似模型的表型**	MGI:5286078 注：该品系需与Nf1-KO(NM-KO-210301)交配才可能获得预期表型
	参考文献	Reilly KM, Loisel DA, Bronson RT, McLaughlin ME, Jacks T, Nf1;Trp53 mutant mice develop glioblastoma with evidence of strain-specific effects. Nat Genet. 2000 Sep;26(1):109-13
弥漫性大B细胞淋巴瘤 Diffuse Large B-Cell Lymphoma	**近似模型的表型**	MGI:5014832
	参考文献	Slatter TL, Hung N, Campbell H, Rubio C, Mehta R, Renshaw P, Williams G, Wilson M, Engelmann A, Jeffs A, Royds JA, Baird MA, Braithwaite AW, Hyperproliferation, cancer, and inflammation in mice expressing a Delta133p53-like isoform. Blood. 2011 May 12;117(19):5166-77
神经纤维瘤病 Neurofibromatosis	**近似模型的表型**	MGI:3580069 注：该品系需与Nf1-KO(NM-KO-210301)交配才可能获得预期表型
	参考文献	Vogel KS, Klesse LJ, Velasco-Miguel S, Meyers K, Rushing EJ, Parada LF, Mouse tumor model for neurofibromatosis type 1. Science. 1999 Dec 10;286(5447):2176-9
髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:3710320 注：该品系需与Cdkn2C-KO(NM-KO-2114003)交配才可能获得预期表型
	参考文献	Uziel T, Zindy F, Xie S, Lee Y, Forget A, Magdaleno S, Rehg JE, Calabrese C, Solecki D, Eberhart CG, Sherr SE, Plimmer S, Clifford SC, Hatten ME, McKinnon PJ, Gilbertson RJ, Curran T, Sherr CJ, Roussel MF, The tumor suppressors Ink4c and p53 collaborate independently with Patched to suppress medulloblastoma formation. Genes Dev. 2005 Nov 15;19(22):2656-67
髓母细胞瘤 Medulloblastoma	**近似模型的表型**	MGI:3818748 注：该品系需与Rag1-KO(NM-KO-2103089)和Xrcc5-KO(NM-KO-202153)交配才可能获得预期表型
	参考文献	Holcomb VB, Vogel H, Marple T, Kornegay RW, Hasty P, Ku80 and p53 suppress medulloblastoma that arise independent of Rag-1-induced DSBs. Oncogene. 2006 Nov 16;25(54):7159-65

验证数据

暂无数据