

Pten-KO

品系全名	C57BL/6Smoc- <i>Pten</i> ^{em3Smoc}
目录号	NM-KO-18002
品系状态	胚胎冻存

基因信息

基因名 Pten	基因曾用名	TEP1; MMAC1; AI463227; PTENbeta; 2310035O07Rik; A130070J02Rik; B430203M17Rik
	NCBI ID	19211
	MGI ID	109583
	Ensembl ID	ENSMUSG00000013663
	人类同源基因	PTEN

品系描述

敲除Pten基因exon5，建立Pten基因敲除小鼠模型。曾有基因修饰致死报导，详情点击基因信息中的MGI ID。

应用领域：肿瘤研究

*使用本品系发表的文献需注明: Pten-KO mice (Cat. NO. NM-KO-18002) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

Cowden综合征 Cowden Syndrome	近似模型的表型	MGI:2179025
	参考文献	Di Cristofano A, Pesce B, Cordon-Cardo C, Pandolfi PP, Pten is essential for embryonic development and tumour suppression. Nat Genet. 1998 Aug;19(4):348-55

前列腺癌 Prostate Cancer	近似模型的表型	MGI:5569926 注：该品系需与Nkx3-1-KO(NM-KO-2112819)交配才可能获得预期表型
	参考文献	Kim MJ, Cardiff RD, Desai N, Banach-Petrosky WA, Parsons R, Shen MM, Abate-Shen C, Cooperativity of Nkx3.1 and Pten loss of function in a mouse model of prostate carcinogenesis. Proc Natl Acad Sci U S A. 2002 Mar 5;99(5):2884-9
自闭症谱系障碍 Autism Spectrum Disorder	近似模型的表型	MGI:5805821
	参考文献	Clipperton-Allen AE, Page DT, Decreased aggression and increased repetitive behavior in Pten haploinsufficient mice. Genes Brain Behav. 2015 Feb;14(2):145-57
自闭症谱系障碍 Autism Spectrum Disorder	近似模型的表型	MGI:5467729 注：该品系需与Slc6a4-KO(NM-KO-200892)交配才可能获得预期表型
	参考文献	Page DT, Kuti OJ, Prestia C, Sur M, Haploinsufficiency for Pten and Serotonin transporter cooperatively influences brain size and social behavior. Proc Natl Acad Sci U S A. 2009 Feb 10;106(6):1989-94

验证数据

暂无数据