

Brca1-Flox

品系全名	C57BL/6Smoc- <i>Brca1</i> ^{tm1Smoc}
目录号	NM-CKO-18007
品系状态	活体

基因信息

基因名 Brca1	基因曾用名	-
	NCBI ID	12189
	MGI ID	104537
	Ensembl ID	ENSMUSG00000017146
	人类同源基因	BRCA1

品系描述

flox Brca1基因exon5。可与组织特异性Cre工具鼠交配，在表达Cre酶的细胞中，条件性敲除Brca1基因。

应用领域：乳腺癌,肿瘤研究

*使用本品系发表的文献需注明: Brca1-Flox mice (Cat. NO. NM-CKO-18007) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

乳腺癌 Breast Cancer	近似模型的表型	MGI:3710355 注：该品系与LGB-cre工具鼠交配才可能获得预期表型
	参考文献	McCarthy A, Savage K, Gabriel A, Naceur C, Reis-Filho JS, Ashworth A, A mouse model of basal-like breast carcinoma with metaplastic elements. J Pathol. 2007 Mar;211(4):389-98

乳腺癌 Breast Cancer	近似模型的表型 MGI:3762186 注：该品系与P53-Flox(2)(NM-CKO-190067)和KRT14-cre工具鼠交配才可能获得预期表型 参考文献 Liu X, Holstege H, van der Gulden H, Treur-Mulder M, Zevenhoven J, Velds A, Kerkhoven RM, van Vliet MH, Wessels LF, Peterse JL, Berns A, Jonkers J, Somatic loss of BRCA1 and p53 in mice induces mammary tumors with features of human BRCA1-mutated basal-like breast cancer. Proc Natl Acad Sci U S A. 2007 Jul 17;104(29):12111-6
乳腺癌 Breast Cancer	近似模型的表型 MGI:3805032 注：该品系与Wap-cre工具鼠交配才可能获得预期表型 参考文献 Shakya R, Szabolcs M, McCarthy E, Ospina E, Basso K, Nandula S, Murty V, Baer R, Ludwig T, The basal-like mammary carcinomas induced by Brca1 or Bard1 inactivation implicate the BRCA1/BARD1 heterodimer in tumor suppression. Proc Natl Acad Sci U S A. 2008 May 13;105(19):7040-5
乳腺癌 Breast Cancer	近似模型的表型 MGI:3805035 注：该品系与Bard1-Flox(NM-CKO-2114115)和Wap-cre工具鼠交配才可能获得预期表型 参考文献 Shakya R, Szabolcs M, McCarthy E, Ospina E, Basso K, Nandula S, Murty V, Baer R, Ludwig T, The basal-like mammary carcinomas induced by Brca1 or Bard1 inactivation implicate the BRCA1/BARD1 heterodimer in tumor suppression. Proc Natl Acad Sci U S A. 2008 May 13;105(19):7040-5
乳腺癌 Breast Cancer	近似模型的表型 MGI:5307256 注：该品系与P53-Flox(2)(NM-CKO-190067)和KRT14-cre工具鼠交配才可能获得预期表型 参考文献 Drost R, Bouwman P, Rottenberg S, Boon U, Schut E, Klarenbeek S, Klijn C, van der Heijden I, van der Gulden H, Wientjens E, Pieterse M, Catteau A, Green P, Solomon E, Morris JR, Jonkers J, BRCA1 RING Function Is Essential for Tumor Suppression but Dispensable for Therapy Resistance. Cancer Cell. 2011 Dec 13;20(6):797-809

遗传性乳腺癌卵巢癌综合征 Hereditary Breast Ovarian Cancer Syndrome	近似模型的表型	MGI:2176786 注：该品系与P53-Flox(2)(NM-CKO-190067)和MMTV-cre工具鼠交配才可能获得预期表型
	参考文献	Xu X, Wagner KU, Larson D, Weaver Z, Li C, Ried T, Hennighausen L, Wynshaw-Boris A, Deng CX, Conditional mutation of Brca1 in mammary epithelial cells results in blunted ductal morphogenesis and tumour formation [see comments]. Nat Genet. 1999 May;22(1):37-43
遗传性乳腺癌卵巢癌综合征 Hereditary Breast Ovarian Cancer Syndrome	近似模型的表型	MGI:5297134 注：该品系与P53-Flox(2)(NM-CKO-190067)和MMTV-cre工具鼠交配才可能获得预期表型
	参考文献	Jones LP, Tilli MT, Assefnia S, Torre K, Halama ED, Parrish A, Rosen EM, Furth PA, Activation of estrogen signaling pathways collaborates with loss of Brca1 to promote development of ERalpha-negative and ERalpha-positive mammary preneoplasia and cancer. Oncogene. 2008 Jan 31;27(6):794-802

验证数据

暂无数据