

Apc-Flox

品系全名	C57BL/6Smoc- <i>Apc</i> ^{tm2(flox)Smoc}
目录号	NM-CKO-200013
品系状态	活体

基因信息

基因名 Apc	基因曾用名	CC1MinmAPCAI047805AU020952AW124434
	NCBI ID	11789
	MGI ID	88039
	Ensembl ID	ENSMUSG00000005871
	基因标记细胞类型举例	--
	人类同源基因	APC
	人类同源基因关联疾病	--
基因名 Apc	基因曾用名	CC1, Min, mAPC, AI047805, AU020952, AW124434
	NCBI ID	11789
	MGI ID	88039
	Ensembl ID	ENSMUSG00000005871
	人类同源基因	APC
	人类同源基因关联疾病	大肠癌

品系描述

在Apc基因exon 15两侧分别插入loxP位点。该flox小鼠可与组织特异性Cre工具鼠交配，获得在特定细胞类型或组织中敲除Apc基因的小鼠模型。

应用领域：肠道肿瘤相关研究

*使用本品系发表的文献需注明: Apc-Flox mice (Cat. NO. NM-CKO-200013) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

大肠癌 Colorectal Cancer	近似模型的表型	MGI:3844311 注：该品系与CDX2-cre工具鼠交配才可能获得预期表型
	参考文献	Hinoi T, Akyol A, Theisen BK, Ferguson DO, Greenson JK, Williams BO, Cho KR, Fearon ER, Mouse model of colonic adenoma-carcinoma progression based on somatic Apc inactivation. Cancer Res. 2007 Oct 15;67(20):9721-30
大肠癌 Colorectal Cancer	近似模型的表型	MGI:4456428 注：该品系与Fabp1-cre工具鼠交配才可能获得预期表型
	参考文献	Robanus-Maandag EC, Koelink PJ, Breukel C, Salvatori DC, Jagmohan-Changur SC, Bosch CA, Verspaget HW, Devilee P, Fodde R, Smits R, A new conditional Apc-mutant mouse model for colorectal cancer. Carcinogenesis. 2010 May;31(5):946-52
大肠癌 Colorectal Cancer	近似模型的表型	MGI:5702414 注：该品系与Vil1-cre/ERT2工具鼠交配才可能获得预期表型
	参考文献	Levy J, Cacheux W, Bara MA, L'Hermitte A, Lepage P, Fraudeau M, Trentesaux C, Lemarchand J, Durand A, Crain AM, Marchiol C, Renault G, Dumont F, Letourneur F, Delacre M, Schmitt A, Terris B, Perret C, Chamaillard M, Couty JP, Romagnolo B, Intestinal inhibition of Atg7 prevents tumour initiation through a microbiome-influenced immune response and suppresses tumour growth. Nat Cell Biol. 2015 Aug;17(8):1062-73
家族性腺瘤性息肉病 Familial Adenomatous Polyposis	近似模型的表型	MGI:3590232 注：该品系与Lck-cre工具鼠交配才可能获得预期表型
	参考文献	Gounaris E, Erdman SE, Restaino C, Gurish MF, Friend DS, Gounari F, Lee DM, Zhang G, Glickman JN, Shin K, Rao VP, Poutahidis T, Weissleder R, McNagny KM, Khazaie K, Mast cells are an essential hematopoietic component for polyp development. Proc Natl Acad Sci U S A. 2007 Dec 11;104(50):19977-82

卵巢癌 Ovarian Cancer	近似模型的表型	MGI:5583019 注：该品系与Pgr-Cre工具鼠交配才可能获得预期表型
	参考文献	van der Horst PH, van der Zee M, Heijmans-Antonissen C, Jia Y, DeMayo FJ, Lydon JP, van Deurzen CH, Ewing PC, Burger CW, Blok LJ, A mouse model for endometrioid ovarian cancer arising from the distal oviduct. Int J Cancer. 2014 Sep 1;135(5):1028-37
卵巢癌 Ovarian Cancer	近似模型的表型	MGI:5779541 注：该品系与Pten-Flox(NM-CKO-18004)和Ad-Cre工具鼠交配并注射Ad-Cre才可能获得预期表型
	参考文献	Wu R, Hendrix-Lucas N, Kuick R, Zhai Y, Schwartz DR, Akyol A, Hanash S, Misek DE, Katabuchi H, Williams BO, Fearon ER, Cho KR, Mouse model of human ovarian endometrioid adenocarcinoma based on somatic defects in the Wnt/beta-catenin and PI3K/Pten signaling pathways. Cancer Cell. 2007 Apr;11(4):321-33
胰腺粘液性囊腺瘤 Pancreatic Mucinous Cystadenoma	近似模型的表型	MGI:5898453 注：该品系与P53-Flox(2)(NM-CKO-190067)和Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Kuo TL, Weng CC, Kuo KK, Chen CY, Wu DC, Hung WC, Cheng KH, APC haploinsufficiency coupled with p53 loss sufficiently induces mucinous cystic neoplasms and invasive pancreatic carcinoma in mice. Oncogene. 2016 Apr 28;35(17):2223-34

验证数据

暂无数据