

Apc-Flox

系統名	C57BL/6Smoc- <i>Apc</i> ^{tm2(flox)Smoc}
SMOC番号	NM-CKO-200013
維持形態	Repository Live

遺伝子の概要

Gene Symbol Apc	Synonyms	CC1, Min, mAPC, AI047805, AU020952, AW124434
	NCBI ID	11789
	MGI ID	88039
	Ensembl ID	ENSMUSG00000005871
	Human Ortholog	APC
	Human Ortholog Associated Diseases by GWAS	大腸癌

説明

These mice carry loxP sites flanking exon 15 of *Apc* gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of *Apc* gene.

応用分野: Intestinal tumor research

*Literature published using this strain should indicate: Apc-Flox mice (Cat. NO. NM-CKO-200013) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Colorectal Cancer	表現型	MGI:5702414 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Vil1-cre/ERT2 mice.
	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
Ovarian Cancer	表現型	MGI:5779541 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pten-Flox(NM-CKO-18004) and Ad-Cre mice.
	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
ovarian cancer	表現型	MGI:5583019 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Pgr-Cre mice.
	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

Pancreatic Mucinous Cystadenoma	表現型	MGI:5898453 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with P53-Flox(2)(NM-CKO-190067) and Pdx1-cre mice.
	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. <i>Oncogene</i> . 2016 Apr 28;35(17):2223-34
Familial Adenomatous Polyposis	表現型	MGI:3590232 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Lck-cre mice.
	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. <i>Proc Natl Acad Sci U S A</i> . 2007 Dec 11;104(50):19977-82
Colorectal Cancer	表現型	MGI:4456428 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Fabp1-cre mice.
	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. <i>Carcinogenesis</i> . 2010 May;31(5):946-52
colorectal cancer	表現型	MGI:3844311 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with CDX2-cre mice.
	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. <i>Cancer Res</i> . 2007 Oct 15;67(20):9721-30

表現型データ

No data

