

Braf-Flox

品系全名	C57BL/6Smoc- <i>Braf</i> ^{em1(flox)Smoc}
目录号	NM-CKO-200073
品系状态	活体

基因信息

基因名 Braf	基因曾用名	B-raf; Braf2; Braf-2; C87398; AA120551; AA387315; AA473386; C230098H17; D6Ert631e; 9930012E13Rik
	NCBI ID	109880
	MGI ID	88190
	Ensembl ID	ENSMUSG00000002413
	人类同源基因	BRAF

品系描述

在Braf基因exon 5两侧分别插入loxP位点，建立Braf基因条件性敲除小鼠模型。

应用领域： 卵母细胞减数分裂和RET信号传导相关研究

*使用本品系发表的文献需注明: Braf-Flox mice (Cat. NO. NM-CKO-200073) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

黑色素瘤 Melanoma	近似模型的表型	MGI:3843341 注：该品系与Tyr-cre/ERT2工具鼠交配才可能获得预期表型
	参考文献	Dhomen N, Reis-Filho JS, da Rocha Dias S, Hayward R, Savage K, Delmas V, Larue L, Pritchard C, Marais R, Oncogenic Braf induces melanocyte senescence and melanoma in mice. Cancer Cell. 2009 Apr 7;15(4):294-303

甲状腺乳头状癌 Thyroid Gland Papillary Carcinoma	近似模型的表型 MGI:5779643 注：该品系与TPO-cre工具鼠交配才可能获得预期表型
	参考文献 Franco AT, Malaguarnera R, Refetoff S, Liao XH, Lundsmith E, Kimura S, Pritchard C, Marais R, Davies TF, Weinstein LS, Chen M, Rosen N, Ghossein R, Knauf JA, Fagin JA, Thyrotrophin receptor signaling dependence of Braf-induced thyroid tumor initiation in mice. Proc Natl Acad Sci U S A. 2011 Jan 25;108(4):1615-20
甲状腺乳头状癌 Thyroid Gland Papillary Carcinoma	近似模型的表型 MGI:5780077 注：该品系与Tg-cre/ERT2工具鼠交配才可能获得预期表型
	参考文献 Charles RP, Iezza G, Amendola E, Dankort D, McMahon M, Mutationally Activated BRAFV600E Elicits Papillary Thyroid Cancer in the Adult Mouse. Cancer Res. 2011 Jun 1;71(11):3863-71
朗格汉斯细胞组织细胞增生症 Langerhans-Cell Histiocytosis	近似模型的表型 MGI:6192274 注：该品系与Cd207-Cre工具鼠交配才可能获得预期表型
	参考文献 Berres ML, Lim KP, Peters T, Price J, Takizawa H, Salmon H, Idoyaga J, Ruzo A, Lupo PJ, Hicks MJ, Shih A, Simko SJ, Abhyankar H, Chakraborty R, Leboeuf M, Beltrao M, Lira SA, Heym KM, Bigley V, Collin M, Manz MG, McClain K, Merad M, Allen CE, BRAF-V600E expression in precursor versus differentiated dendritic cells defines clinically distinct LCH risk groups. J Exp Med. 2014 Apr 7;211(4):669-83
朗格汉斯细胞组织细胞增生症 Langerhans-Cell Histiocytosis	近似模型的表型 MGI:6192275 注：该品系与CAG-cre工具鼠交配才可能获得预期表型
	参考文献 Berres ML, Lim KP, Peters T, Price J, Takizawa H, Salmon H, Idoyaga J, Ruzo A, Lupo PJ, Hicks MJ, Shih A, Simko SJ, Abhyankar H, Chakraborty R, Leboeuf M, Beltrao M, Lira SA, Heym KM, Bigley V, Collin M, Manz MG, McClain K, Merad M, Allen CE, BRAF-V600E expression in precursor versus differentiated dendritic cells defines clinically distinct LCH risk groups. J Exp Med. 2014 Apr 7;211(4):669-83

皮肤黑色素瘤 Skin Melanoma	近似模型的表型	MGI:5902132 注：该品系与Pten-Flox(NM-CKO-18004)和Tyr-cre/ERT2工具鼠交配才可能获得预期表型
	参考文献	Dankort D, Curley DP, Cartlidge RA, Nelson B, Karnezis AN, Damsky WE Jr, You MJ, DePinho RA, McMahon M, Bosenberg M, Braf(V600E) cooperates with Pten loss to induce metastatic melanoma. Nat Genet. 2009 May;41(5):544-52
前列腺癌 Prostate Cancer	近似模型的表型	MGI:5543907 注：该品系与Pten-Flox(NM-CKO-18004)和Nkx3-1-Cre工具鼠交配才可能获得预期表型
	参考文献	Wang J, Kobayashi T, Floc'h N, Kinkade CW, Aytes A, Dankort D, Lefebvre C, Mitrofanova A, Cardiff RD, McMahon M, Califano A, Shen MM, Abate-Shen C, B-Raf activation cooperates with PTEN loss to drive c-Myc expression in advanced prostate cancer. Cancer Res. 2012 Sep 15;72(18):4765-76
心面皮肤综合征 Cardiofaciocutaneous Syndrome	近似模型的表型	MGI:5902221 注：该品系与CAG-cre工具鼠交配才可能获得预期表型
	参考文献	Inoue S, Moriya M, Watanabe Y, Miyagawa-Tomita S, Niihori T, Oba D, Ono M, Kure S, Ogura T, Matsubara Y, Aoki Y, New BRAF knockin mice provide a pathogenetic mechanism of developmental defects and a therapeutic approach in cardio-facio-cutaneous syndrome. Hum Mol Genet. 2014 Dec 15;23(24):6553-66
心面皮肤综合征 Cardiofaciocutaneous Syndrome	近似模型的表型	MGI:6164161 注：该品系与CAG-cre工具鼠交配才可能获得预期表型
	参考文献	Moriya M, Inoue S, Miyagawa-Tomita S, Nakashima Y, Oba D, Niihori T, Hashi M, Ohnishi H, Kure S, Matsubara Y, Aoki Y, Adult mice expressing a Braf Q241R mutation on an ICR/CD-1 background exhibit a cardio-facio-cutaneous syndrome phenotype. Hum Mol Genet. 2015 Dec 20;24(25):7349-60

验证数据

暂无数据

