

Vhl-Flox

品系全名	C57BL/6Smoc- <i>Vhl</i> ^{em1(flox)Smoc}
目录号	NM-CKO-200016
品系状态	活体

基因信息

基因名 Vhl	基因曾用名	Vhlh, pVHL
	NCBI ID	22346
	MGI ID	103223
	Ensembl ID	ENSMUSG00000033933
	人类同源基因	VHL
	人类同源基因关联疾病	Von Hippel-Lindau综合症、肾肿瘤、红细胞增多症

品系描述

在Vhl基因exon 2-3两侧分别插入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Vhl基因的小鼠模型。

应用领域：肿瘤相关研究

*使用本品系发表的文献需注明: Vhl-Flox mice (Cat. NO. NM-CKO-200016) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

婴儿猝死综合症 sudden infant death syndrome	近似模型的表型	MGI:5304714 注：该品系与Myh6-cre工具鼠交配才可能获得预期表型
	参考文献	Neary MT, Mohun TJ, Breckenridge RA, A mouse model to study the link between hypoxia, long QT interval and sudden infant death syndrome. Dis Model Mech. 2012 Nov 16;6(2):503-7

von Hippel-Lindau病 von Hippel-Lindau disease	近似模型的表型	MGI:2677759 注：该品系与ACTB-cre工具鼠交配才可能获得预期表型
	参考文献	Ma W, Tessarollo L, Hong SB, Baba M, Southon E, Back TC, Spence S, Lobe CG, Sharma N, Maher GW, Pack S, Vortmeyer AO, Guo C, Zbar B, Schmidt LS, Hepatic vascular tumors, angiectasis in multiple organs, and impaired spermatogenesis in mice with conditional inactivation of the VHL gene. Cancer Res. 2003 Sep 1;63(17):5320-8
von Hippel-Lindau病 von Hippel-Lindau disease	近似模型的表型	MGI:3621460 注：该品系与Pck1-cre工具鼠交配才可能获得预期表型
	参考文献	Rankin EB, Higgins DF, Walisser JA, Johnson RS, Bradfield CA, Haase VH, Inactivation of the arylhydrocarbon receptor nuclear translocator (Arnt) suppresses von Hippel-Lindau disease-associated vascular tumors in mice. Mol Cell Biol. 2005 Apr;25(8):3163-72
von Hippel-Lindau病 von Hippel-Lindau disease	近似模型的表型	MGI:3621461 注：该品系与Hif1a-Flox(NM-CKO-190065)和Pck1-cre工具鼠交配才可能获得预期表型
	参考文献	Rankin EB, Higgins DF, Walisser JA, Johnson RS, Bradfield CA, Haase VH, Inactivation of the arylhydrocarbon receptor nuclear translocator (Arnt) suppresses von Hippel-Lindau disease-associated vascular tumors in mice. Mol Cell Biol. 2005 Apr;25(8):3163-72
von Hippel-Lindau病 von Hippel-Lindau disease	近似模型的表型	MGI:3844061 注：该品系与Gcg-cre工具鼠交配才可能获得预期表型
	参考文献	Shen HC, Adem A, Ylaya K, Wilson A, He M, Lorang D, Hewitt SM, Pechhold K, Harlan DM, Lubensky IA, Schmidt LS, Linehan WM, Libutti SK, Deciphering von Hippel-Lindau (VHL/Vhl)-associated pancreatic manifestations by inactivating Vhl in specific pancreatic cell populations. PLoS One. 2009;4(4):e4897

婴儿猝死综合症 Sudden Infant Death Syndrome	近似模型的表型 MGI:5304714 注：该品系与Myh6-cre工具鼠交配才可能获得预期表型
	参考文献 Neary MT, Mohun TJ, Breckenridge RA, A mouse model to study the link between hypoxia, long QT interval and sudden infant death syndrome. Dis Model Mech. 2012 Nov 16;6(2):503-7
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	参考文献 Ma W, Tessarollo L, Hong SB, Baba M, Southon E, Back TC, Spence S, Lobe CG, Sharma N, Maher GW, Pack S, Vortmeyer AO, Guo C, Zbar B, Schmidt LS, Hepatic vascular tumors, angiectasis in multiple organs, and impaired spermatogenesis in mice with conditional inactivation of the VHL gene. Cancer Res. 2003 Sep 1;63(17):5320-8
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	参考文献 Rankin EB, Higgins DF, Walisser JA, Johnson RS, Bradfield CA, Haase VH, Inactivation of the arylhydrocarbon receptor nuclear translocator (Arnt) suppresses von Hippel-Lindau disease-associated vascular tumors in mice. Mol Cell Biol. 2005 Apr;25(8):3163-72

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von Hippel-Lindau病 Von Hippel-Lindau Disease	近似模型的表型	MGI:3844062 注：该品系与Ins2-cre工具鼠交配才可能获得预期表型
	参考文献	Shen HC, Adem A, Ylaya K, Wilson A, He M, Lorang D, Hewitt SM, Pechhold K, Harlan DM, Lubensky IA, Schmidt LS, Linehan WM, Libutti SK, Deciphering von Hippel-Lindau (VHL/Vhl)-associated pancreatic manifestations by inactivating Vhl in specific pancreatic cell populations. PLoS One. 2009;4(4):e4897
von Hippel-Lindau病 Von Hippel-Lindau Disease	近似模型的表型	MGI:3844065 注：该品系与Pdx1-cre工具鼠交配才可能获得预期表型
	参考文献	Shen HC, Adem A, Ylaya K, Wilson A, He M, Lorang D, Hewitt SM, Pechhold K, Harlan DM, Lubensky IA, Schmidt LS, Linehan WM, Libutti SK, Deciphering von Hippel-Lindau (VHL/Vhl)-associated pancreatic manifestations by inactivating Vhl in specific pancreatic cell populations. PLoS One. 2009;4(4):e4897
von Hippel-Lindau病 Von Hippel-Lindau Disease	近似模型的表型	MGI:4839497 注：该品系与Pten-Flox(NM-CKO-18004)和Cdh16-cre工具鼠交配才可能获得预期表型
	参考文献	Frew IJ, Minola A, Georgiev S, Hitz M, Moch H, Richard S, Vortmeyer AO, Krek W, Combined VHLH and PTEN mutation causes genital tract cystadenoma and squamous metaplasia. Mol Cell Biol. 2008 Jul;28(14):4536-48

von Hippel-Lindau病 Von Hippel-Lindau Disease	近似模型的表型	MGI:4943534 注：该品系与Pten-Flox(NM-CKO-18004)和Cdh16-cre工具鼠交配才可能获得预期表型
	参考文献	Frew IJ, Thoma CR, Georgiev S, Minola A, Hitz M, Montani M, Moch H, Krek W, pVHL and PTEN tumour suppressor proteins cooperatively suppress kidney cyst formation. EMBO J. 2008 Jun 18;27(12):1747-57

验证数据

暂无数据