

Cdk4-KO

系統名	C57BL/6Smoc- <i>Cdk4</i> ^{em1Smoc}
SMOC番号	NM-KO-190614
維持形態	Developing

遺伝子の概要

Gene Symbol Cdk4	Synonyms	Crk3
	NCBI ID	12567
	MGI ID	88357
	Ensembl ID	ENSMUSG00000006728
	Human Ortholog	CDK4

説明

Exon 3-7 of *Cdk4* gene was deleted to generate *Cdk4* knockout mice.

応用分野: The protein encoded by this gene is a member of the Ser/Thr protein kinase family. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb).

*Literature published using this strain should indicate: *Cdk4*-KO mice (Cat. NO. NM-KO-190614) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Type 1 Diabetes Mellitus	表現型	MGI:2386959
	参考文献	Rane SG, Dubus P, Mettus RV, Galbreath EJ, Boden G, Reddy EP, Barbacid M, Loss of <i>Cdk4</i> expression causes insulin-deficient diabetes and <i>Cdk4</i> activation results in beta-islet cell hyperplasia. <i>Nat Genet.</i> 1999 May;22(1):44-52

表現型データ

No data
