

Ptpn11-Flox

系統名	C57BL/6Smoc- <i>Ptpn11</i> ^{em1(flox)Smoc}
SMOC番号	NM-CKO-231881
維持形態	Sperm cryopreservation

遺伝子の概要

Gene Symbol Ptpn11	Synonyms	Syp; Shp2; PTP1D; PTP2C; SAP-2; SHP-2; SH-PTP2; SH-PTP3; AW536184; 2700084A17Rik
	NCBI ID	19247
	MGI ID	99511
	Ensembl ID	ENSMUSG00000043733
	Human Ortholog	PTPN11

説明

These strains carry loxP sites flanking exon 4 of Ptpn11 gene. When crossed with a Cre recombinase-expressing strain, this strain is useful in eliminating tissue-specific conditional expression of Ptpn11 gene.

*Literature published using this strain should indicate: Ptpn11-Flox mice (Cat. NO. NM-CKO-231881) were purchased from Shanghai Model Organisms Center, Inc..

病気の予測

Juvenile Myelomonocytic Leukemia	表現型	MGI:3845014 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Mx1-cre mice.
	参考文献	Chan G, Kalaitzidis D, Usenko T, Kutok JL, Yang W, Mohi MG, Neel BG, Leukemogenic Ptpn11 causes fatal myeloproliferative disorder via cell-autonomous effects on multiple stages of hematopoiesis. Blood. 2009 Apr 30;113(18):4414-24

Noonan Syndrome 1	表現型	MGI:6095197 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Emx1-Cre mice.
	参考文献	Altmuller F, Pothula S, Annamneedi A, Nakhaei-Rad S, Montenegro-Venegas C, Pina-Fernandez E, Marini C, Santos M, Schanze D, Montag D, Ahmadian MR, Stork O, Zenker M, Fejtova A, Aberrant neuronal activity-induced signaling and gene expression in a mouse model of RASopathy. PLoS Genet. 2017 Mar;13(3):e1006684
Disease Of Metabolism	表現型	MGI:5906203 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ckmm-cre mice.
	参考文献	Princen F, Bard E, Sheikh F, Zhang SS, Wang J, Zago WM, Wu D, Trelles RD, Bailly-Maitre B, Kahn CR, Chen Y, Reed JC, Tong GG, Mercola M, Chen J, Feng GS, Deletion of Shp2 tyrosine phosphatase in muscle leads to dilated cardiomyopathy, insulin resistance, and premature death. Mol Cell Biol. 2009 Jan;29(2):378-88

表現型データ

No data