

hPCSK9

通过同源重组，将小鼠Pcsk9基因进行人源化修饰。

品系全名	C57BL/6Smoc- <i>Pcsk9</i> ^{em2(hPCSK9)/Smoc}
目录号	NM-HU-00075
品系状态	活体

基因信息

基因名 Pcsk9	基因曾用名	AI415265; AI747682; FH3; HCHOLA3; Narc1; PC9
	NCBI ID	100102
	MGI ID	2140260
	Ensembl ID	ENSMUSG00000044254
	人类同源基因	PCSK9

品系描述

通过同源重组，将小鼠Pcsk9基因进行人源化修饰。

应用领域：免疫治疗；肿瘤研究；药物筛选

*使用本品系发表的文献需注明: hPCSK9 mice (Cat. NO. NM-HU-00075) were purchased from Shanghai Model Organisms Center, Inc..

验证数据

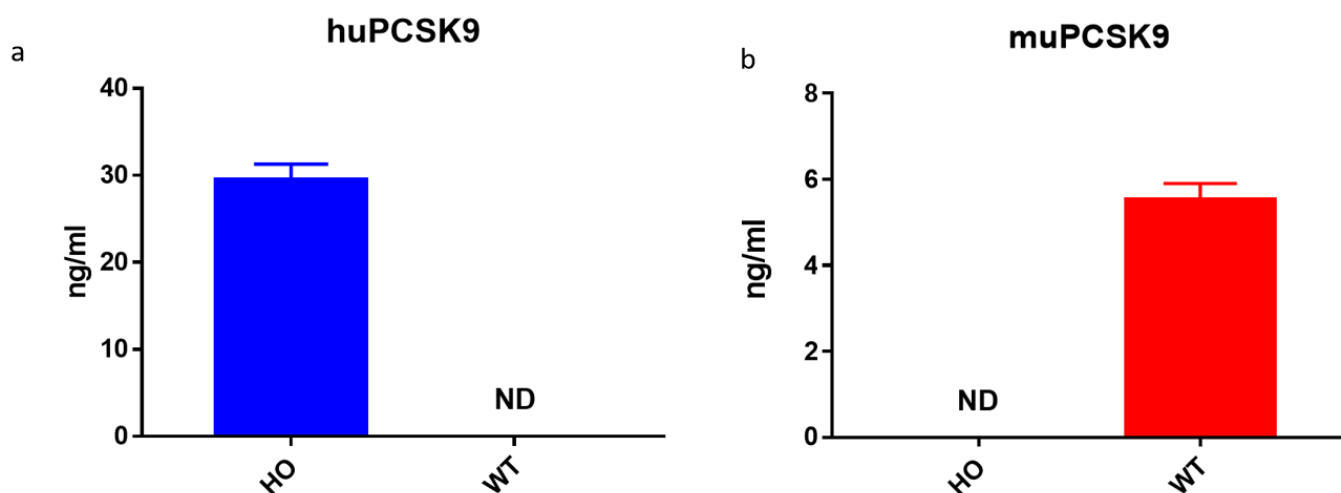


Fig.1 Expression of PCSK9 in the serum of humanized PCSK9 homozygous mice is detected by Elisa. (a) The expression of human PCSK9 can be detected in the serum collected from homozygous mice. (b) The expression of mouse PCSK9 can not be detected in the serum collected from homozygous mice.

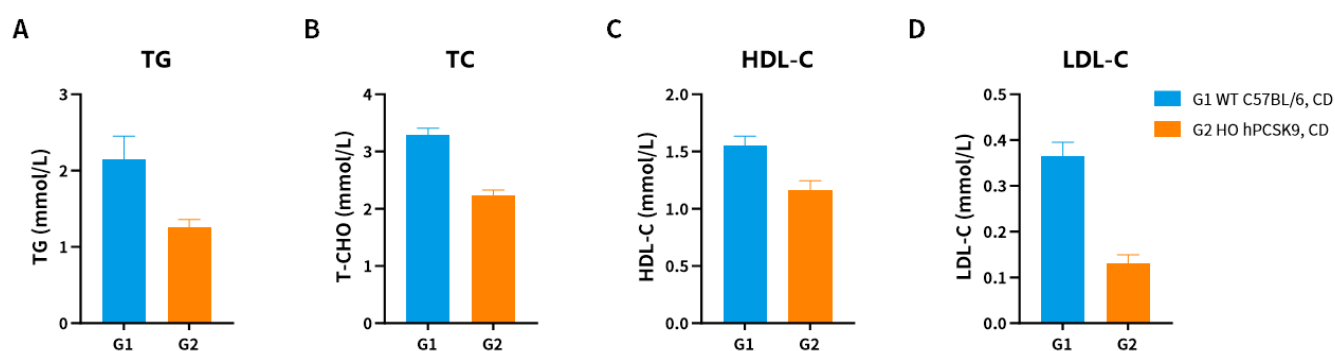


Fig.2 Detection of the blood lipid index of (A) TG, (B) TC, (C) HDL-C and (D) LDL-C in chow diet-fed WT mice and HO hPCSK9 mice before treatment. (n=7-8, 6-week-old male mice).

Abbr. WT, wild type; HO, Homozygous; CD, chow diet.

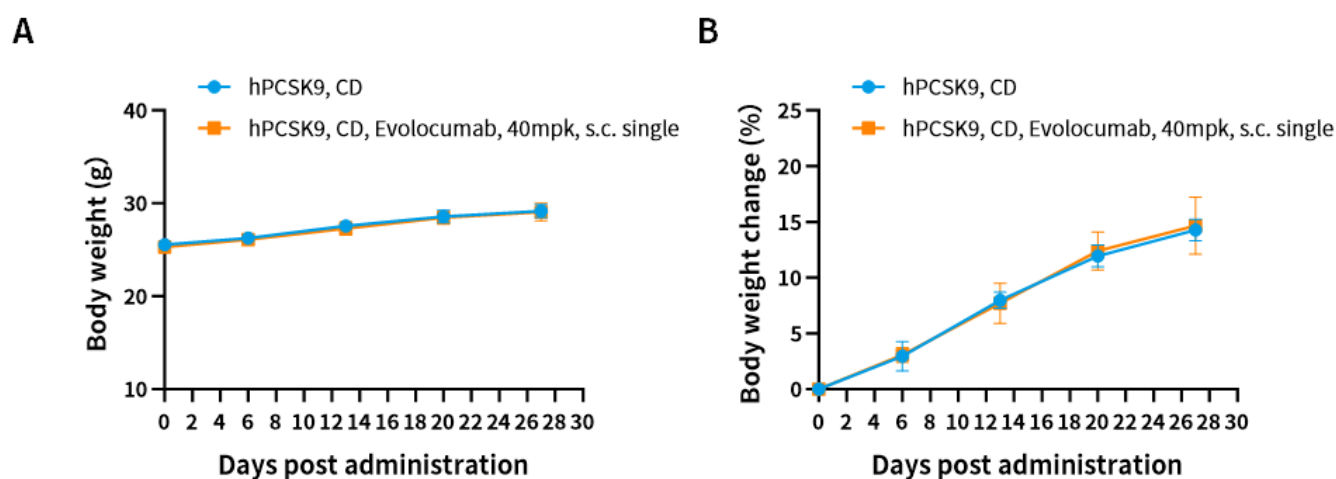


Fig.3 Body weight in chow diet-fed and Evolocumab-treated HO hPCSK9 knockin mice (8 male mice in each group).

Abbr. HO, Homozygous; CD, chow diet.

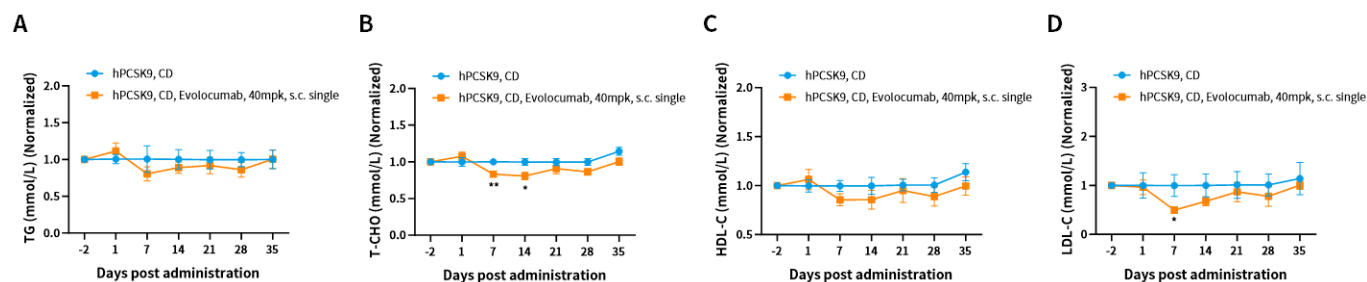


Fig.4 Detection of the blood lipid index of (A) TG, (B) T-CHO, (C) HDL-C and (D) LDL-C in chow diet-fed and Evolocumab-treated HO hPCSK9 knockin mice.

Blood lipids level of hPCSK9 mice before and after dosing were detected. Data were all normalized to control (8 male mice in each group. Mean $\pm$ SEM. * $p < 0.05$ and ** $p < 0.01$ in Evolocumab group under t-test versus control).

Abbr. HO, Homozygous; CD, chow diet.

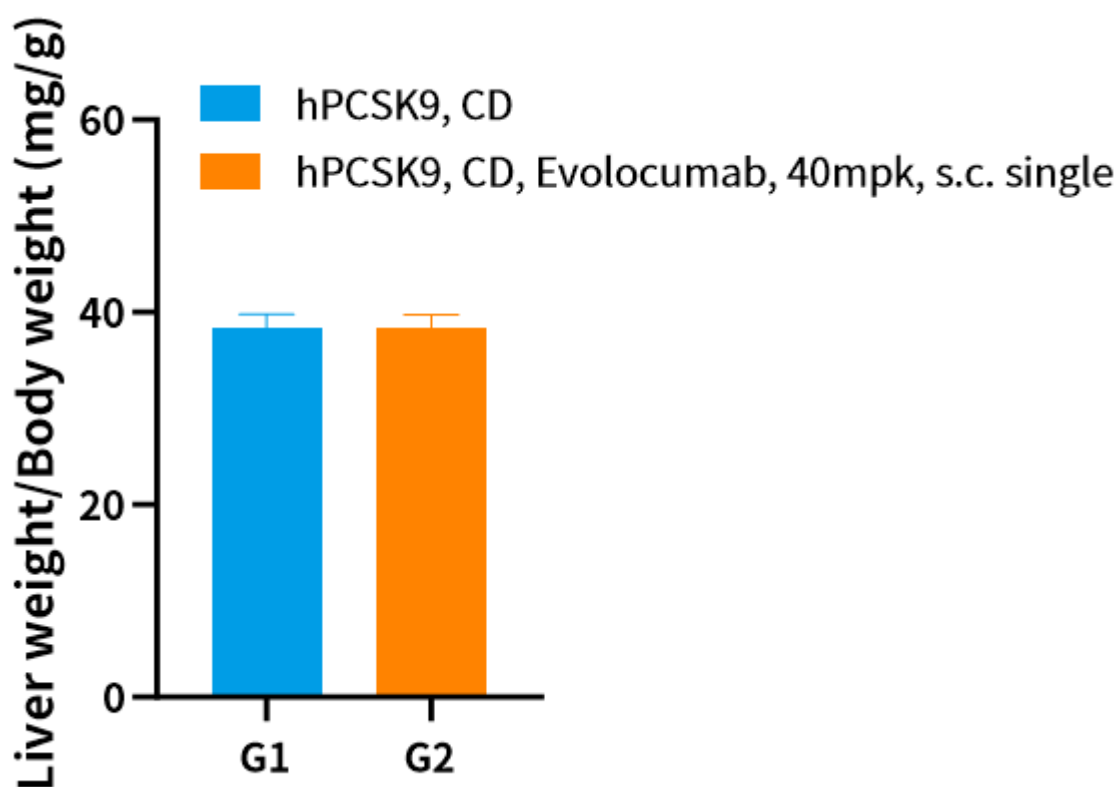


Fig.5 Liver weight-to-body weight ratio in chow diet-fed HO hPCSK9 knockin mice after 35 days of dosing (8 male mice in each group).

Abbr. HO, Homozygous; CD, chow diet.

发表文献