

Col4a5-R471X

品系全名	C57BL/6Smoc- <i>Col4a5</i> ^{em1(R471X)Smoc}
目录号	NM-KI-200183
品系状态	活体

基因信息

基因名 Col4a5	基因曾用名	-
	NCBI ID	12830
	MGI ID	88456
	Ensembl ID	ENSMUSG00000031274
	人类同源基因	COL4A5

品系描述

将小鼠Col4a5基因471位氨基酸由R替换为X，建立该Col4a5基因点突变小鼠模型。

应用领域：Alport综合征小鼠模型

*使用本品系发表的文献需注明: Col4a5-R471X mice (Cat. NO. NM-KI-200183) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

Alport综合征小鼠模型 X-Linked Alport Syndrome	近似模型的表型	MGI:6479076
	参考文献	Hashikami K, et al., Establishment of X-linked Alport syndrome model mice with a Col4a5 R471X mutation. Biochem Biophys Rep. 2019 Mar;17:81-86

验证数据

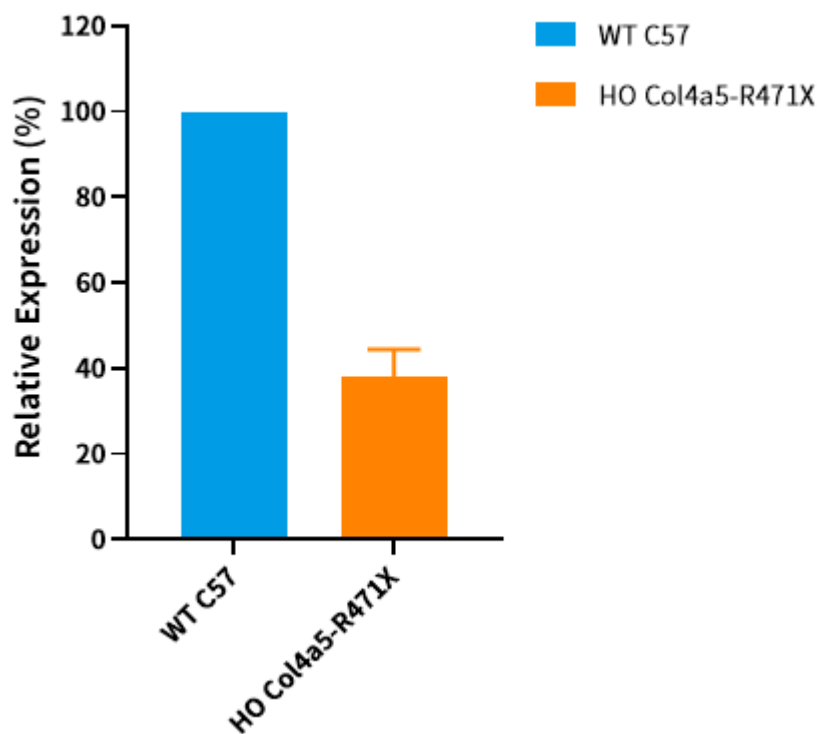


Fig1. *Col4a5* mRNA level was measured in *Col4a5*-R471X mice (n=3, male, 6 week-old) and the point mutation of *Col4a5* has been verified by sequencing.

Abbr. HO, homozygous; WT, wild type.

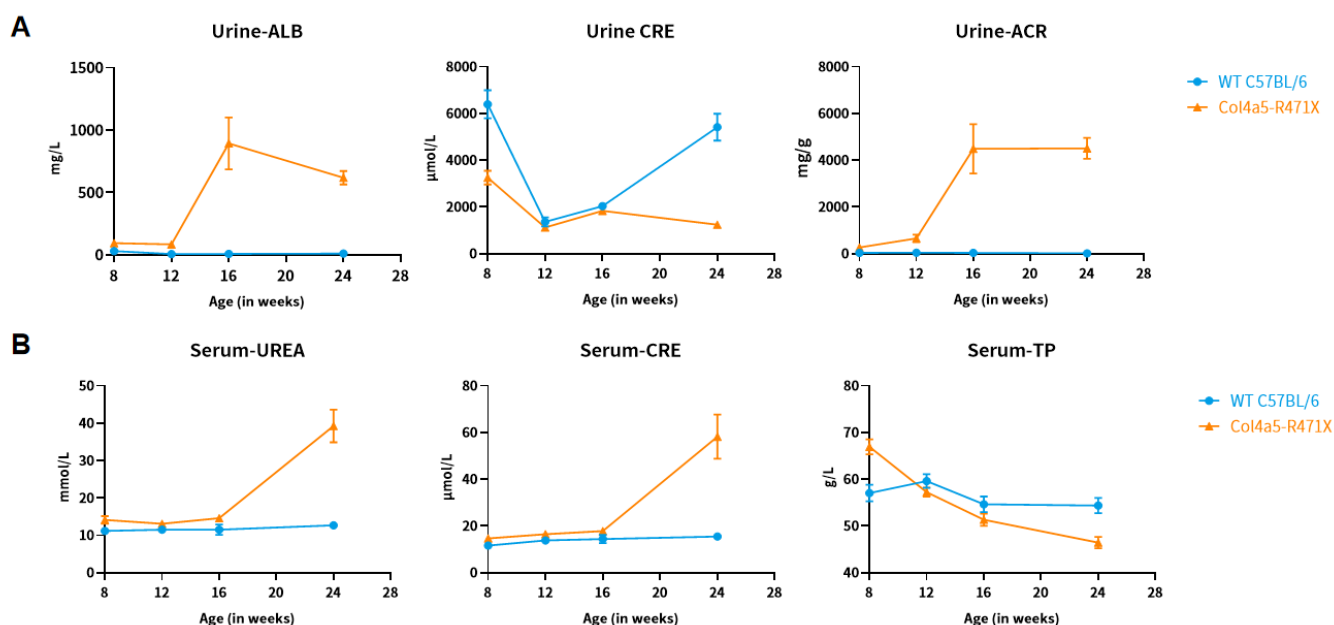


Fig2. The results of urine (A) and blood (B) biochemical indicators in *Col4a5*-R471X mice (n=2 male and 6 female).

Abbr. WT, wild type.

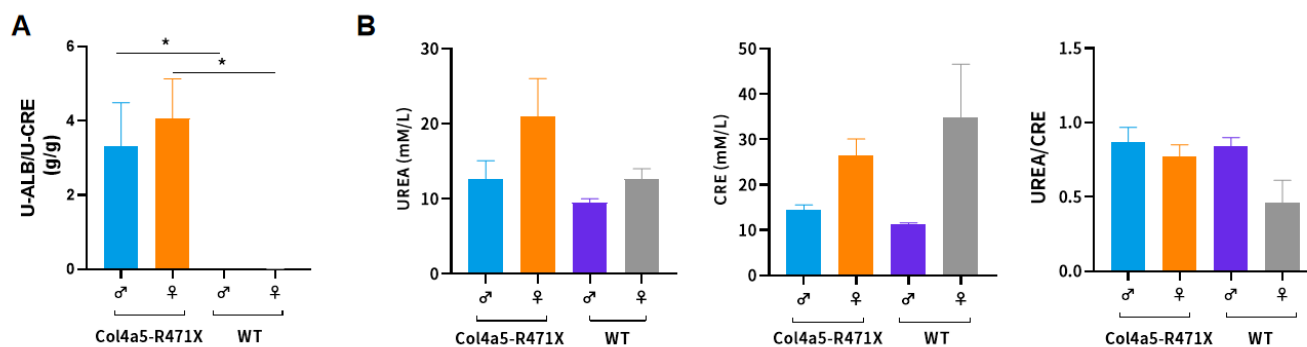


Fig3. The results of urine (A) and plasma (B) biochemical indicators in 21-weeks-old Col4a5-R471X mice (n=3/group).(Data from a cooperator)

Abbr. WT, wild type.