Col4a5-R471X

Nomenclature	C57BL/6Smoc-*Col4a5*$^{em1(R471X)Smoc}$
Cat. NO.	NM-KI-200183
Strain State	Repository Live

Gene Summary

Gene Symbol **Col4a5**	**Synonyms**	-
	NCBI ID	12830
	MGI ID	88456
	Ensembl ID	ENSMUSG00000031274
	Human Ortholog	COL4A5

Model Description

These mice carry a R471X mutation of Col4a5 gene.
Research Application: Alport syndrome research
*Literature published using this strain should indicate: Col4a5-R471X mice (Cat. NO. NM-KI-200183) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

X-Linked Alport Syndrome	**Phenotype(s)**	MGI:6479076
	Reference(s)	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

Validation Data

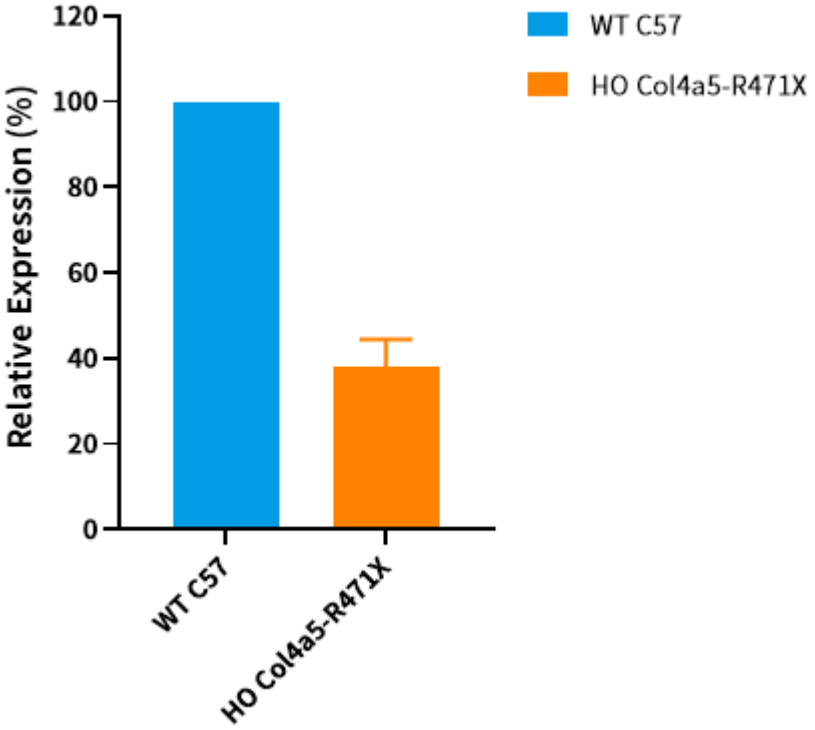

Fig1. *Col4a5* mRNA level was measured in Col4a5-R471X mice (n=3, male, 6 week-old) and the point mutation of *Col4a5* has been verified by sequencing.

Abbr. HO, homozygous; WT, wild type.

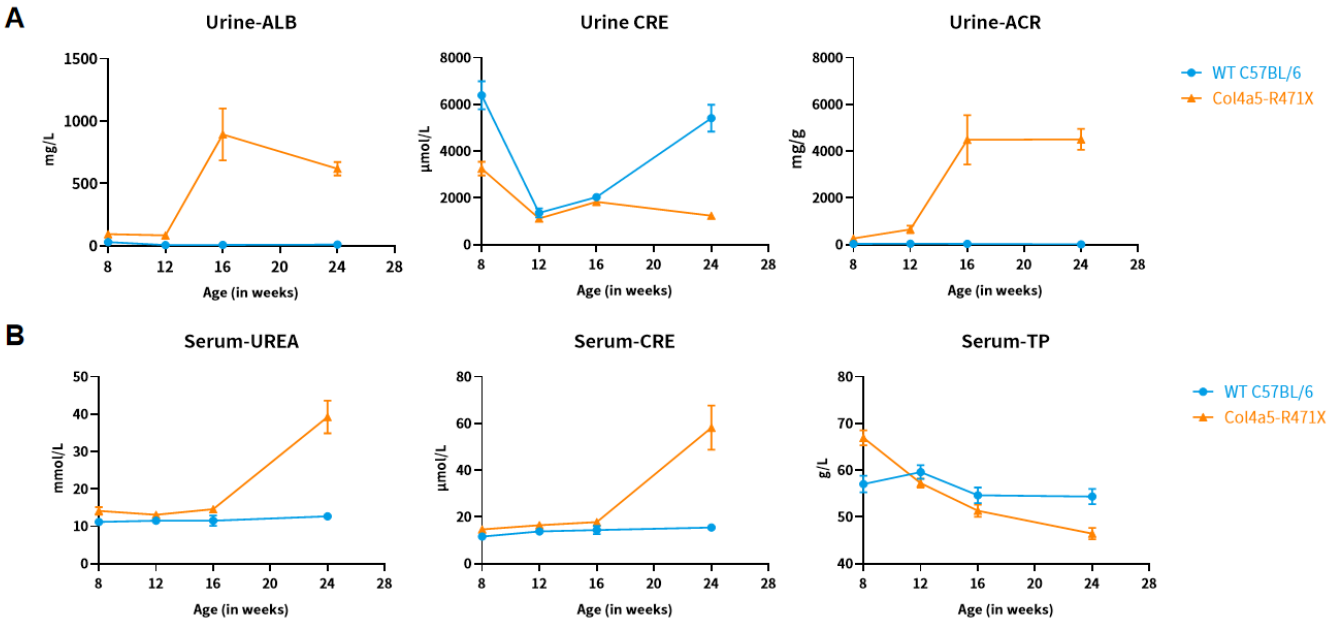

Fig2. The results of urine (A) and blood (B) biochemical indicators in Col4a5-R471X mice (n=2 male and 6 female).

Abbr. WT, wild type.

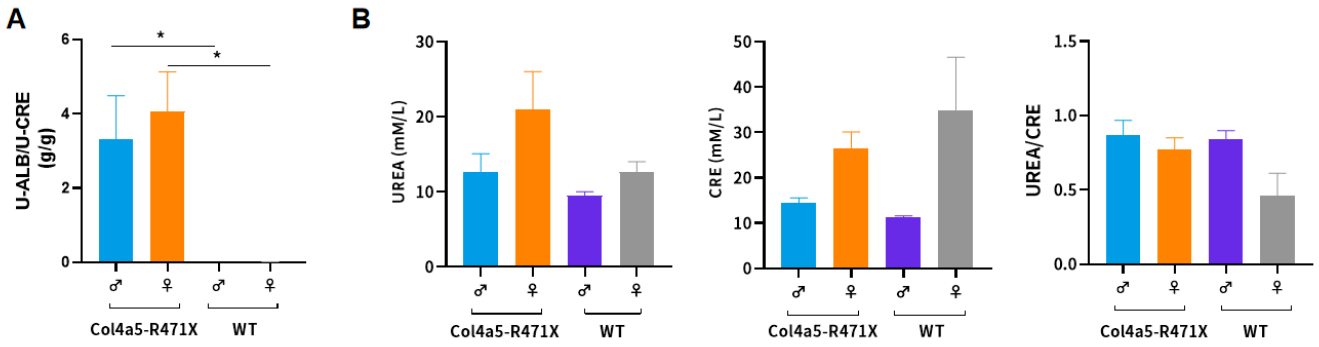

Fig3. The results of urine (A) and plasma (B) biochemical indicators in 21-weeks-old Col4a5-R471X mice (n=3/group).(Data from a cooperator)

Abbr. WT, wild type.