

**Supplementary Table S1. The sources of antibodies used in this study**

<b>Antibodies</b>	<b>Catalogue number</b>	<b>Company</b>	<b>Location</b>
<b>Primary antibodies</b>			
anti-Fibronectin	F3648	Sigma-Aldrich	St. Louis, MO
anti- $\alpha$ -SMA	A2547	Sigma-Aldrich	St. Louis, MO
anti- $\alpha$ -SMA	Ab5694	Abcam	Cambridge, MA
anti-PAI-1	AF3828	R & D Systems	Minneapolis, MN
anti-PCNA	Sc-56	Santa Cruz Biotechnolog	Santa Cruz, CA
anti-CD63	Ab59479	Abcam	Cambridge, MA
anti-CD63	Ab217345	Abcam	Cambridge, MA
anti-TSG101	Ab83	Abcam	Cambridge, MA
anti-PDGFR- $\beta$	sc-432	Santa Cruz Biotechnology	Santa Cruz, CA
anti-Shh	Sc-9024	Santa Cruz Biotechnology	Santa Cruz, CA
anti-Gli1	Ab49314	Abcam	Cambridge, MA
anti-smoothened	Ab72130	Abcam	Cambridge, MA
anti-c-Myc	#5605S	Cell Signaling Technology	Danvers, MA
anti-collagen IV	Ab211228	Abcam	Cambridge, MA
anti-podocalyxin	AF1556	R & D Systems	Minneapolis, MN
anti-ZO-1	QF215185	Life Technologies	Carlsbad, CA
anti- $\alpha$ -tubulin	RM2007	Ray Antibody Biotech	Beijing, China
anti-GAPDH	RM2002	Ray Antibody Biotech	Beijing, China
anti- $\beta$ -actin	RM2001	Ray Antibody Biotech	Beijing, China
<b>Secondary antibodies</b>			
Goat anti-mouse	BA1050	Boster Biological Technology	Wuhan, China
Goat anti-rabbit	BA1054	Boster Biological Technology	Wuhan, China
Rabbit anti-goat	BA1060	Boster Biological Technology	Wuhan, China
Donkey Anti-Mouse	715-065-150	Jackson ImmunoResearch	West Grove, PA
Donkey Anti-Rabbit	711-065-152	Jackson ImmunoResearch	West Grove, PA
Donkey Anti-Mouse	715-225-150	Jackson ImmunoResearch	West Grove, PA
Donkey Anti-Rabbit	711-165-152	Jackson ImmunoResearch	West Grove, PA
Donkey Anti-Goat	705-545-147	Jackson ImmunoResearch	West Grove, PA

**Supplementary Table S2. Clinical data of CKD patients.**

<b>Characteristics</b>	<b>CKD patients</b>
<b>Age at entry-years</b>	
Mean $\pm$ SEM	46.4 $\pm$ 15.7
Range	20-57
<b>Scr (<math>\mu</math>mol/l)</b>	447.6 $\pm$ 252.1
<b>eGFR (ml/min/1.73m<sup>2</sup>)</b>	16.8 $\pm$ 8.5
<b>UTP (g/24 h)</b>	5.6 $\pm$ 3.4
<b>Diagnosis No.</b>	
FSGS	2
CKD Stage 5	1
Proliferative Sclerosing IgAN	1
DN	1