

Figure S1. Kindlin-2 is not required for TGF- β 1-induced Smad3 activation in fibroblast. (A1 and A2) Representative micrographs show the expression of Kindlin-2 (A1) and FSP1, a marker of fibroblast (A2) in the kidney of UUO mice. (B) NRK-49F cells were transfected with empty vector or pFlag-Kindlin-2 followed by treatment of TGF- β 1 (5ng/ml) for 30mins. P-Smad3 expression was examined by Western blot. (C and D) NRK-49F cells were transfected with three Kindlin-2 siRNAs followed by treatment of TGF- β 1 (5ng/ml) for 30mins. P-Smad3 expression in cytosol (C) or in the nuclei (D) was examined by Western blot.

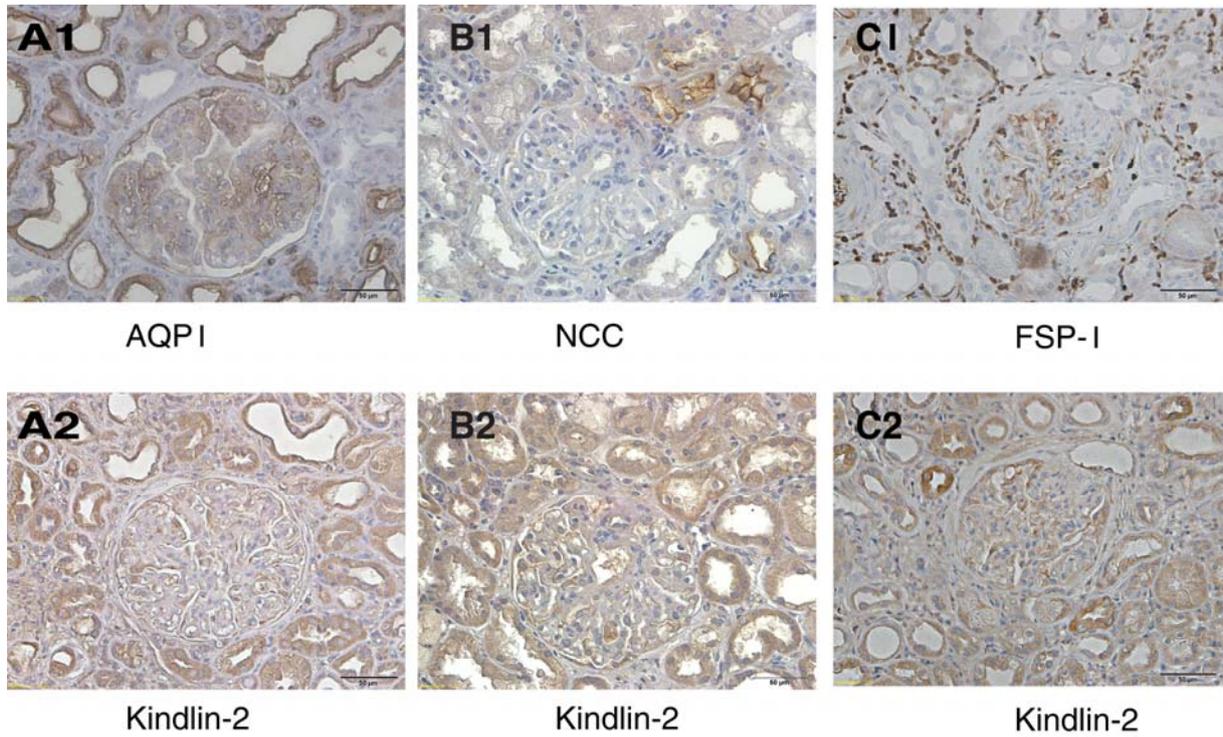


Figure S2. Expression of Kindlin-2 in human fibrotic kidney. Immunohistochemical staining was performed in serial renal sections from patients with renal tubulointerstitial fibrosis. Proximal tubules, distal tubules, and fibroblasts were identified by staining with anti-AQP1 (A1), anti-NCC (B1), or anti-FSP1 (C1), separately. Kindlin-2 expression in proximal tubules (A2), distal tubules (B2), or fibroblasts (C2) were determined by staining with anti-Kindlin-2 mAb in the serial sections. Scale bar, 50 µm.

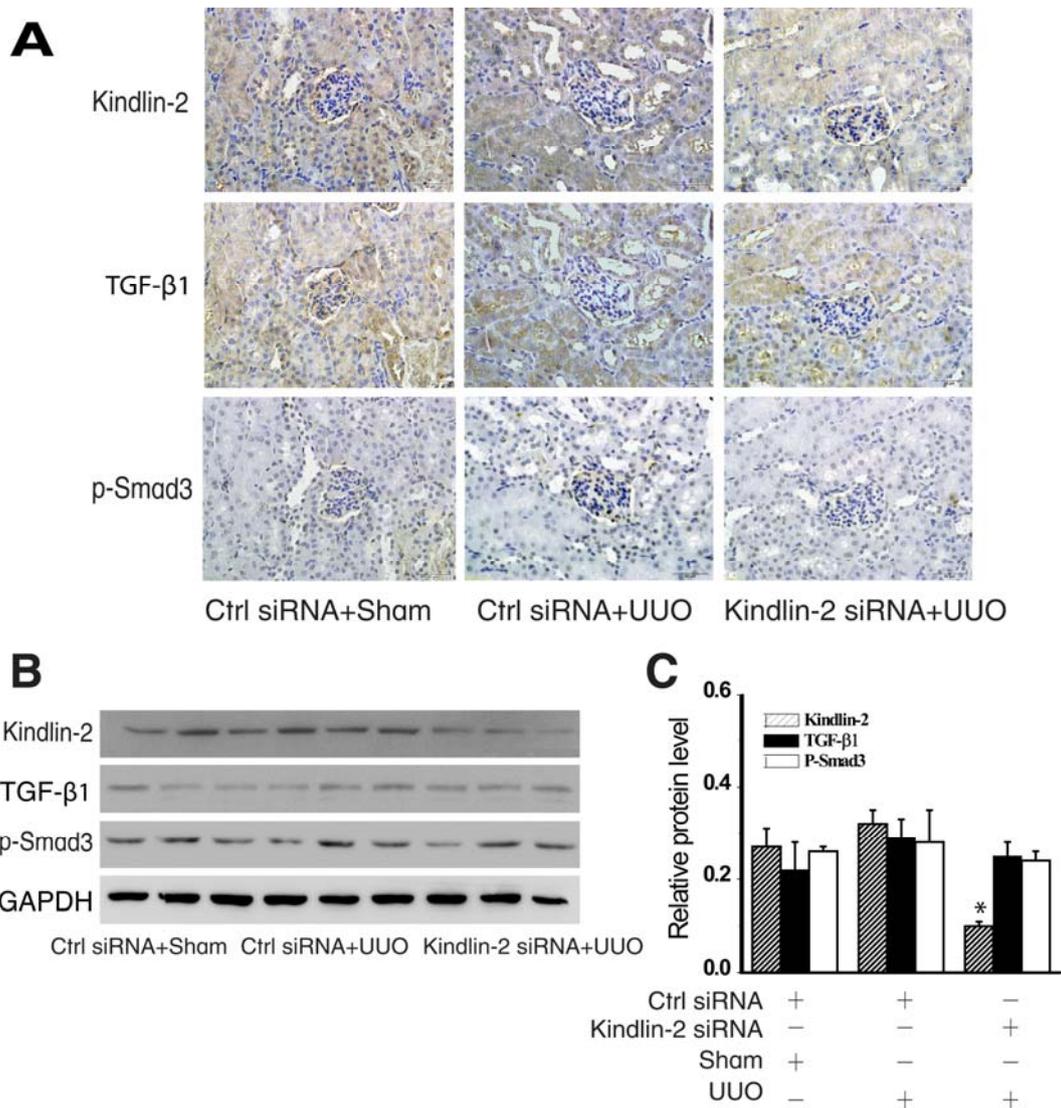


Figure S3. Expression of Kindlin-2, TGF- β 1 and p-Smad3 in contralateral kidney of UUO mice. (A) Representative micrographs showing the expression of Kindlin-2, TGF- β 1 and p-Smad3 in the contralateral kidneys from sham-operation, UUO, and Kindlin-2 knockdown groups 7 days after operation. Scale bar, 50 μ m. (B and C) Western blot analysis showing the expression of Kindlin-2, TGF- β 1 and p-Smad3 in the contralateral kidneys of the three groups (7 days after operation, n =5 for each group). * $P < 0.05$ vs. Sham

Supplemental table

Primer sequences used for real-time quantitative PCR

Human gene	Primer Sequence 5' to 3'	
	Forward	Reverse
Kindlin-2	TGTCCCCGCTATCTAAAAAAGT	TGATGGGCCTCCAAGATTCT
Collagen I	GATCTGCGTCTGCGACAAC	GGCAGTTCTTGGTCTCGTCA
Snail	TCGGAAGCCTAACTACAGCGA	AGATGAGCATTGGCAGCGAG
α -SMA	GCTGCCAGAGACCCTGTT	TTTCATGGATGCCAGCAGACT
Mouse gene	Primer Sequence 5' to 3'	
	Forward	Reverse
Kindlin-2	TCCATGTCACGGACCTGAAC	GCATCACCCCTCCGATGTG
TGF- β 1	TCCAGAGTTTCACTCCCCC	GGCACCGTGGGAAATAGTAGA
Collagen I	TCCTGGCAACAAAGGAGACA	GGGCTCCTGGTTTTCTTCT
Snail	CACACGCTGCCTTGTGTCT	GGTCAGCAAAAGCACGGTT
Fibronectin	AGACCATACCTGCCGAATGTAG	GAGAGCTTCCTGTCCTGTAGAG
α -SMA	CCCAGACATCAGGGAGTAATGG	TCTATCGGATACTTCAGCGTCA