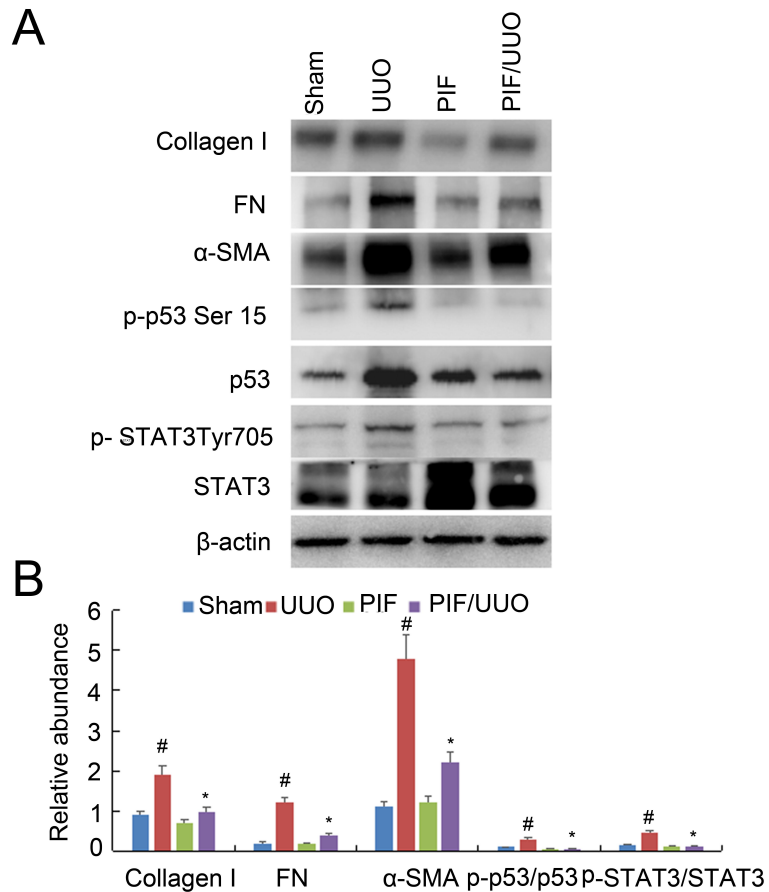
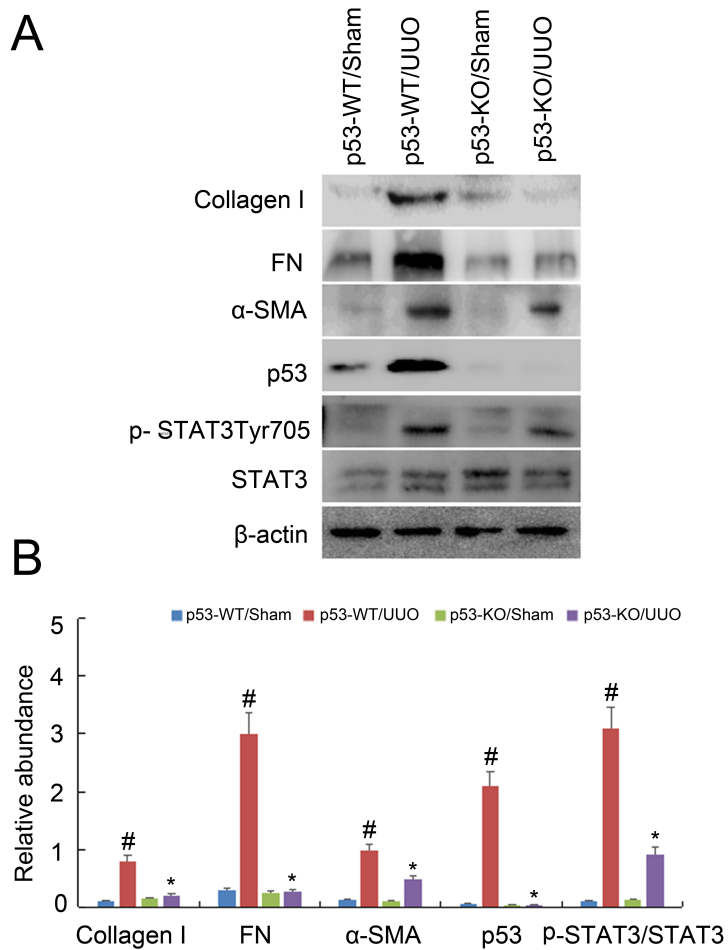


## p53 induces miR199a-3p to suppress SOCS7 for STAT3 activation and renal fibrosis in UUO

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**Supplementary Figure1. Pifithrin-a inhibits expression of collagenI, fibronectin and α-SMA by blocking STAT3 signaling in UUO mice.** The male C57 mice after UUO were injected with 3 mg/kg pifithrin-a for 7 days. (A) The lysate of kidney cortex was collected for immunoblot analysis of collagen I, fibronectin, α-SMA, p-p53 (ser15), p53, p-STAT3 (Tyr705), STAT3, and β-actin by using specific antibodies. (B) densitometry of proteins signals on immunoblots. Data were expressed as means±sd (n=8); #*P*<0.05 versus the sham group; \**P*<0.05 versus the UUO group.



**Supplementary Figure2. The expression of collagenI, fibronectin and  $\alpha$ -SMA was suppressed by inhibiting STAT3 signaling in p53-KO mice.** The left ureter of WT and p53-KO littermate mice was ligated for 7 days. (A) The lysate of kidney cortex was collected for immunoblot analysis of collagen I, fibronectin,  $\alpha$ -SMA, p53, p-STAT3 (Tyr705), STAT3, and  $\beta$ -actin by using specific antibodies.(B) densitometry of proteins signals on immunoblots. Data were expressed as means $\pm$ sd (n=6);  $\#P < 0.05$  versus the sham group;  $* P < 0.05$  versus the UUO group.