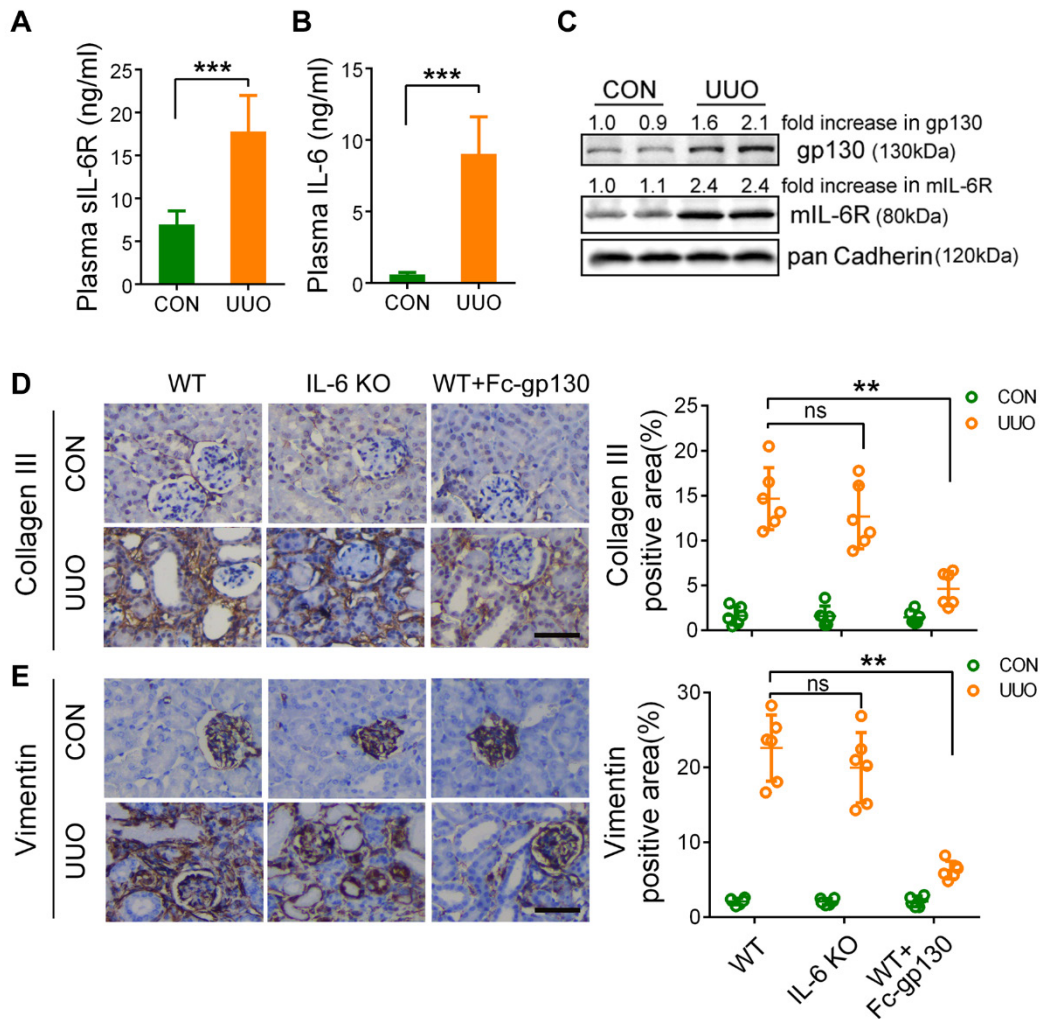
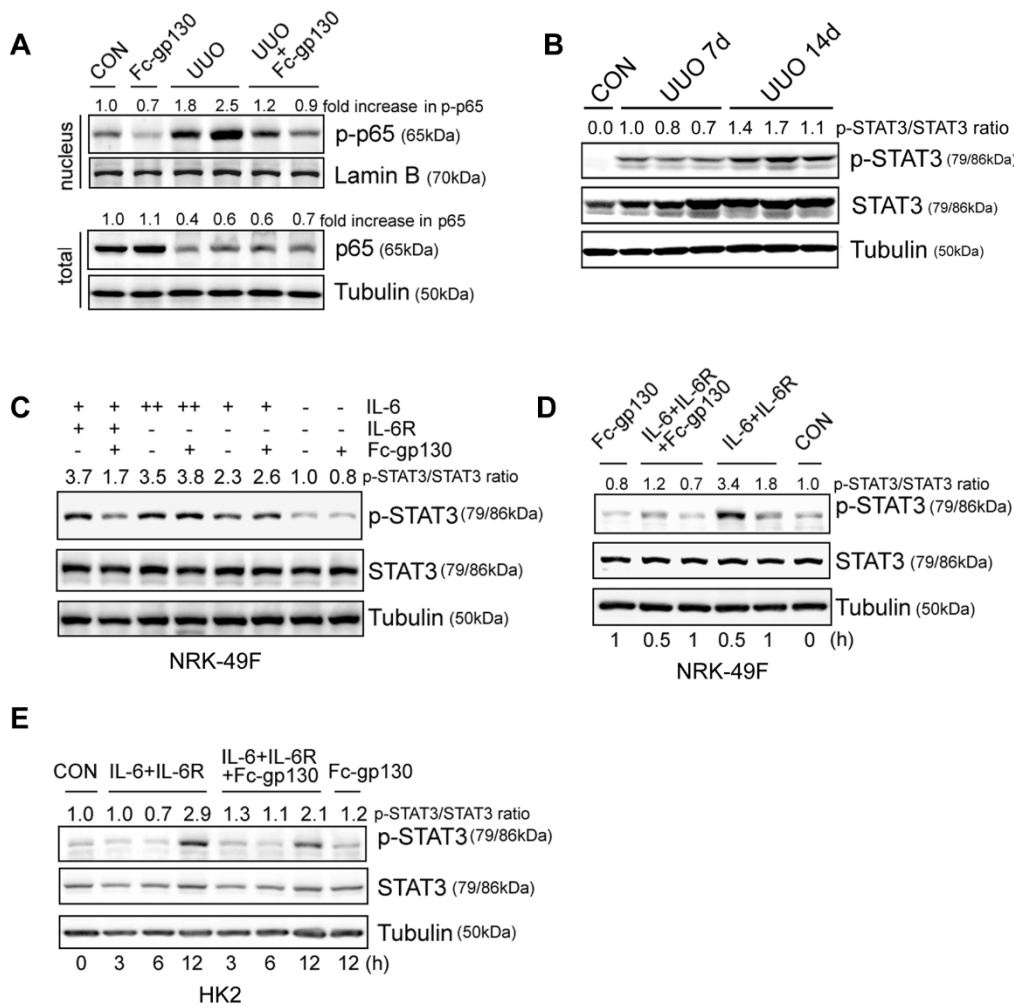


Supplementary Material

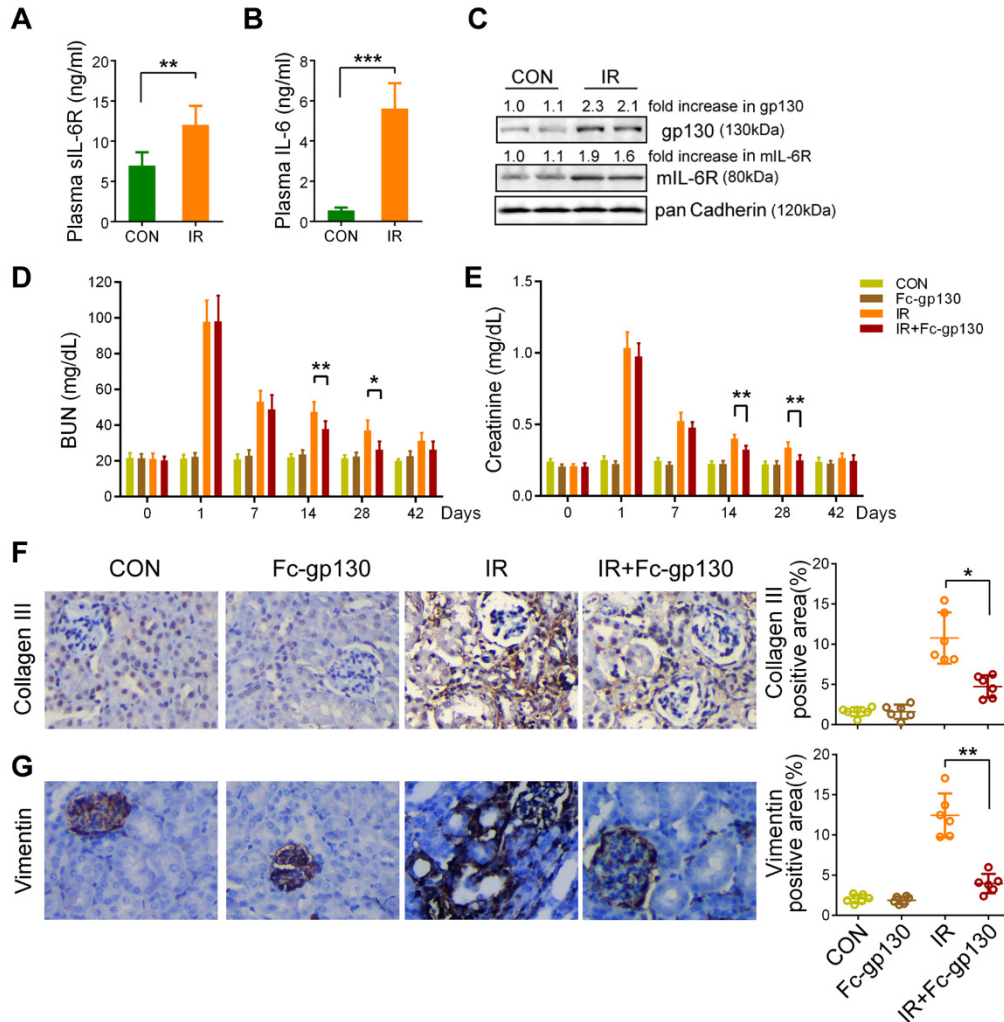


Supplementary Figure S1. Renal fibrosis was reduced in UUU mice treated with Fc-gp130. (A-B) ELISA of sIL-6R(A) and IL-6 (B) in mouse plasma on day 14 after UUU or CON surgery. (C) Western blotting analysis of gp130, membrane-bound IL-6 receptor (mIL-6R), and pan-cadherin in cell membrane extracts on day 14 after UUU. (D-E) Samples from WT mice pretreated with or without Fc-gp130 and IL-6 KO C57BL/6 mice were collected on day 14 after UUU or CON surgery. Immunohistochemistry and quantitative analysis of collagen III (D) and vimentin (E) content in renal tissue. Scale bar, 50 μ m. Data are means \pm SD, $n = 6$ per group; ns, not significant, ** $p < 0.01$, *** $p < 0.001$. Representative results from three independent experiments are shown.



Supplementary Figure S2. Fc-gp130 specifically suppressed p-STAT3 induced by IL-6 trans-signaling. (A) Renal tissue samples were collected on day 7 after UUO. Western blotting analysis of phosphorylated (p)-p65 and Lamin B in nuclear extracts and of NF- κ B p65 and tubulin in total lysates. (B) Renal tissue samples were collected on day 7 and 14 after UUO. Western blotting analysis of p-STAT3, STAT3 and tubulin in renal lysates. (C) NRK-49F cells were treated with IL-6 (+, 50 ng/ml; ++, 80 ng/ml), IL-6R (+, 200 ng/ml) or Fc-gp130 (+, 500 ng/ml) for 12 h. Western blotting analysis of p-STAT3, STAT3 and tubulin in cell lysates. (D) NRK-49F cells were treated with IL-6 (50 ng/ml) plus IL-6R (200 ng/ml), or Fc-gp130 (500 ng/ml) for a brief period (0.5 or 1 h). Western blotting analysis of p-STAT3, STAT3 and tubulin in cell lysates. (E) HK2 cells were treated with IL-6 (50 ng/ml) plus IL-6R (200 ng/ml), or Fc-gp130 (500 ng/ml) for the indicated durations (3, 6, 12 h). Western blotting

analysis of p-STAT3, STAT3, and tubulin in cell lysates. Each experiment was performed at least in triplicate.



Supplementary Figure S3. Renal fibrosis was reduced in IR mice treated with Fc-gp130. (A-B) ELISA of sIL-6R(A) and IL-6 (B) in mouse plasma on day 14 after renal ischemia reperfusion (IR) or sham control (CON) surgery. (C) Western blotting analysis of gp130, membrane-bound IL-6 receptor (mIL-6R), and pan-cadherin in cell membrane extracts on day 14 after IR. (D-E) Blood urea nitrogen (BUN) (D) and creatinine (E) levels on day 0, 1, 7, 14, 28, and 42 after IR. (F-G) Samples from C57BL/6 mice were collected on day 42 after IR or CON surgery. Immunohistochemistry and quantitative analysis of collagen III (F) and vimentin (G) content in renal tissue. Scale bar, 50 μ m. Data are means \pm SD, $n = 6$ per group; * $p <$

0.05, ** $p < 0.01$, *** $p < 0.001$. Representative results from three independent experiments are shown.