X-figureS1（5.21）

Supplementary Fig. 1. mRNA expression levels of *COL1A1*, *Fibronectin*, *α-SMA*, and *THBS4* in HK2 cells treated with TGF-β1 and transfected with si-NC or si-THBS4, followed by IGF-1 (100 ng/mL) or solvent. The figure shows the relative mRNA expression levels of the indicated genes in HK2 cells transfected with si-NC or si-THBS4 and treated with IGF-1 (100 ng/mL) or solvent. Data are presented as mean ± SEM (n=3 independent experiments). Significant differences are indicated by asterisks: \**p <* 0.05, \*\*\**p <* 0.001, \*\*\*\**p <* 0.0001. The results demonstrate that THBS4 knockdown significantly reduced the expression of *COL1A1*, *Fibronectin*, and *α-SMA*, while IGF-1 treatment partially reversed this suppression.

Supplementary table 1 Patient baseline data table

|  |  |  |
| --- | --- | --- |
|  | Healthy Control (N=30) | CKD (N=100) |
| Female (number, %) | 13(43.3%) | 50(50%) |
| Age | 63.13(13.89) | 63.67(12.50) |
| Hemoglobin (g/L) | 145.2(16.83) | 111.91(33.47) |
| eGFR (ml/min/1.73m2) | 99.14(24.82) | 26.89(28.35) |
| Albumin (g/L) | 43.61(4.51) | 40.05(7.28) |
| Urea (mmol/L) | 5.87(1.67) | 20.10(11.68) |
| Uric acid (umol/L) | 321.83(86.00) | 471.85(151.74) |

Data are presented as mean ± SEM unless otherwise indicated. SEM, standard error mean.