**Supplementary Figures**

**Supplementary Figure S1 The injury in kidney after UUO and primary TEC after TGF-β1 treatment.** **(A)** Expression level of TGF-β1 in NO and O kidneys from WT mice on day3, day7 and day15 after UUO. **(B)** Representative images of post-operation kidney showing the injury in NO and O kidneys from TRPC6 knockout and WT mice on day15 after UUO. **(C)** Representative figures of changes during the culture process of primary TEC. **(D)** Representative images of the phenotype change in culture TEC with or without TGF-β1 stimulation at 12 h, 24 h, 48 h and 72 h.

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**Supplementary Figure S2** **The expression of TRPC3 and TRPC6 in TEC .** Expression level of TRPC6 (green) and TRPC3 (green) as well as nuclear stain DAPI (blue) in primary TEC with and without TGF-β1 stimulation for 72 h from WT **(A)** and TRPC6-/- **(B)** mice detected by immunofluorescent staining. Scale bars, 20 µm.

Fig. s2.tif

**Supplementary Figure S3** **The promotion of EMT and up-regulation of AKT/mTOR and ERK1/2 pathways in TEC of HYP9-stimulated group.** **(A)** Expression levels of EMT markers in primary TEC with and without HYP9 pretreatment detected by western blot. **(B)** Expression levels of the total and phosphorylated protein of AKT, mTOR, and ERK1/2 in primary TEC with and without HYP9 pretreatment detected by western blot.

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