**Figure S1** (A) Expression of key components of Wnt signaling were examined by western blot in the non-urethral fibrosis (non-HUF) and urethral fibrosis (HUF) groups (n=3 for patients with urethral stricture). The other two results of repeated experiments were shown here.

**Figure S2** The other two results of repeated experiments of representative histologic images of Hematoxylin-eosin (HE), Masson stained midshaft sections of rat penises at magnifications of 50×, and 100× in the control groups, UF groups and UF+DKK1 groups. (urethral lumen (#), urethral epithelium (*), urethral fibrosis (&)).