



S4 Fig. Markers of tubular epithelial cells are expressed in 3D-reconstructed kidney tubuloids. (A) 2D immunofluorescence of a solid (left) and an alveolar (right) tubuloid positive for both LTL (red) and PNA (green). (B and C) Whole-mount 3D confocal microscopy of a cystic tubuloid positive for LTL (red), PNA (green) and E-cad (orange). (B) A 3D reconstruction of z-stacks of a cystic tubuloid. From left to right: a 3D-reconstructed tubuloid seen from the top-side (coordinates given for orientation), top-side view opened by a clipping plane, top-side view with a marked orthogonal slice (8 μm) and extended orthogonal slice (8 μm) only. (C) Selected 2D images of z-stacks at different depths (top, middle, bottom) of a cystic tubuloid. Data information: scale bars, 50 μm. Nuclei are counterstained with DAPI. Three independent replicates were examined.