

**Supplementary information, Figure S4** Twa1 facilitates β-catenin nuclear accumulation and Wnt target gene expression in RKO cells. RKO cells infected with lentiviruses containing sh-Twa1 or sh-ctr were treated with Wnt3a-CM or Ctr-CM, and then subjected to the following experiments. (**A**) Western analysis of endogenous β-catenin and Twa1 from RKO cell lysates. GAPDH was used as a loading control. (**B**, **C**) Effects of Twa1 depletion on Wnt-induced luciferase reporter activity (**B**) and Wnt target gene expression by qRT-PCR (**C**). Quantitative data are shown as the mean ±SEM (at least three independent experiments). \**P* < 0.05 and \*\**P* < 0.01, Student's *t* test. (**D**) Western blotting of endogenous β-catenin and Twa1 from cytosolic and nuclear fractions of HEK-293 cells. Lamin B and α-tubulin were used as loading controls for nuclear and cytoplasmic fractions, respectively. (**E**) Confocal microscopy showing the nuclear localization of β-catenin. Green signals indicate the cells infected with lentiviruses. DNA was stained with DAPI (blue). Bars, 10 μm.