

Supplementary information, Figure S2 Twa1 is selectively involved in canonical Wnt signaling. (A) Western analysis showing the efficiency of Twa1 knockdown in HEK-293 cells. The cells were treated with lentivirus-based shRNAs targeting Twa1 (sh-Twa1) or control shRNA (sh-ctr) and subjected to immunoblotting. Actin was used as a loading control. (B-I) Effects of Twa1 depletion on the indicated pathways determined by dual luciferase reporter assays. HEK-293 cells infected with lentiviruses containing sh-Twa1 or sh-ctr were transfected with the plasmids containing the indicated reporters, and treated with the indicated signaling pathway activators (B-H) or co-transfected with the indicated constructs (I). Quantitative data are expressed as the mean \pm SEM (at least three independent experiments). *P<0.05, Student's t test. Ctr, control, GLI, glioma-associated oncogene (Hedgehog signaling); IL-6, interleukin-6; LEF, lymphoid enhancer-binding factor (Wnt/β-catenin signaling); Luc, luciferase; NF-κB, nuclear factor-κB (TNF-α signaling); NFAT, nuclear factor of activated T cells (Calcium signaling); RLA, relative luciferase activity (firefly/renilla luciferase); Shh-CM, sonic hedgehog-conditioned medium; SMAD2, SMAD family member 2 (TGF-β signaling); SRF, serum response factor (MAPK signaling); STAT3, signal transducers and activators of transcription 3 (JAK/STAT signaling); TAZ, transcriptional coactivator with PDZ-binding motif; TEAD, TEA domain (Hippo signaling). TGF-β1, transforming growth factor-β1; TNFα, tumor necrosis factor-α; Wnt3a-CM, Wnt3a-conditioned medium; YAP, Yes-associated protein.