



Supplementary information, Figure S7 Twa1 binds to β -catenin *in vitro* and *in vivo*. **(A)** GST pull-down analysis of purified His- β -catenin and GST-Twa1 proteins *in vitro*. **(B, C)** HEK-293 cells transfected with the indicated plasmids **(B)** or not **(C)** were subjected to co-IP analysis with the indicated antibodies. **(D)** Cytosolic or nuclear extracts from HEK-293 cells transfected with the indicated constructs and treated with Wnt3a-CM or Ctr-CM were subjected to co-IP experiments with anti-Flag antibody. Lamin B and α -tubulin were used as loading controls for nuclear and cytoplasmic fractions, respectively.