



**Figure S1** Validation of POSTN function in in PTC cells. (A,B) The silencing efficiency of shPOSTN-2 was assessed using qPCR for mRNA (A) and Western blot for protein (B). The proliferation, migration, autophagy, and apoptosis of TPC-1 cells upon shPOSTN-2 transduction was tested using CCK-8 (C), transwell migration (D), wound healing (E), immunostaining of LC3B (F), and flow cytometry detecting Annexin-V expression (G). The data is presented as mean  $\pm$  SEM (n=3). P value was calculated using unpaired t-test in. \*\*, P<0.01; \*\*\*, P<0.001; \*\*\*\*, P<0.0001.