



**Supplementary Figure S9** Effect of PNPO-shRNA on vitamin B6 concentration and Smad2 phosphorylation. OVCAR-3 and SK-OV-3 cells were infected with PNPO-shRNA lentivirus to generate shPNPO expressing cells. The concentration of vitamins PLP, PL, PN, and PM in the cytosol (a) and culture media (b) were measured. Western blots of PNPO and Smad2 protein in OVCAR-3 (c) and SK-OV-3 (d) are shown, followed by the semi-quantitative analysis of the relative optical density of the protein bands. Data are presented as mean  $\pm$  SEM. Bk, counterpart blank cells; shP, PNPO-shRNA expressing cells; \*,  $P < 0.05$ ; \*\*,  $P < 0.01$ ;  $n = 3$  independent experiments.