

Supplementary information, Figure S3 Localization of β -catenin in ESCs knocked down for *Smek1* and *Smek1*.

(A, B) Representative immunostaining of β -catenin (*red*), Smek1 (*green*, *A*), and Smek2 (*green*, *B*) in ESC lines expressing control or *Smek1/2* shRNA, counterstained with Hoechst 33258. Scale bar, 50 μ m. (C) Higher magnification of samples from *A* and Western blot analysis of nuclear extracts with anti- β -catenin, -Smek1, and -Smek2 antibodies. Lamin A/C was used as an internal control in nuclear fractionation. Scale bar, 20 μ m. Diffuse staining of β -catenin was found throughout membrane, cytoplasm, and nucleus (*left*). The protein levels of β -catenin have no significant change between control and knockdown cells (*right*). (D) Localization of Smek in nucleus. Scale bar, 20 μ m.