**Supplementary Figure S2.** ESCs decidualization was impaired by OPG knockdown. (A) Immunofluorescence staining of OPG in ESCs, transfected with scrambled siRNA (siCON) or OPG-targeting siRNA (siOPG) and then treated with differential culture medium for 2 days. Scale bars, 100 μm. (B) Quantitative RT–PCR (qRT–PCR) analysis of OPG mRNA expression in differentiated ESCs, transfected with siCON or siOPG and then treated with differential culture medium for 2 days. The values are normalized to the GAPDH expression level and indicated as the mean ± SEM of three independent experiments (n = 3, **P < 0.01, versus controls). (C, D) qRT–PCR analysis of decidual markers insulin-like growth factor binding protein-1 (IGFBP-1) and prolactin (PRL) mRNA expression in differentiated ESCs, transfected with siCON or siOPG and then treated with differential culture medium for 2 days. The values are normalized to the GAPDH expression level and indicated as the mean ± SEM of four independent experiments (n = 4, *P < 0.05, versus controls). (E, F) Western blot analysis the IGFBP-1, OPG, pAkt (S473), pAkt (T308) and total Akt protein levels in differentiated ESCs, transfected with siCON or siOPG and then treated with differential culture medium for 2 days. GAPDH was used as the loading control.