SUPPLEMENTAL FIGURE LEGENDS

Supplement Fig. 1. A. Analysis of purity for individual uterine primary epithelial and stromal cell cultures. Confocal analyses of epithelial and stromal cell populations were made after staining with cytokeratin (red) or desmin (green), respectively. DAPI (blue) was used to stain all nuclei. B. Analysis of cell proliferation by BrdU incorporation for the culture of epithelial and stromal cells alone following the treatments of vehicle, E2 (10 nM), P4 (1 μM) or E2 (10 nM) plus P4 (1 μM) for 48 h. C. Quantitative analysis of cellular proliferation. The data presented here are after the analysis of at least 1000 cells from each group. The error bars represent standard errors. These experiments were repeated at least three times with similar results.

Supplement Fig. 2. Analysis of cell proliferation (A) and the expression of ERα (B) and PR (C). In the non-adjacent co-culture system, uterine epithelial and stromal cells collected on day 6 of pseudopregnancy were treated with vehicle, E2 (10 nM), or E2 (10 nM) plus P4 (1 μM) for 48 h. A. Representative confocal images are shown for BrdU (red) incorporation. Epithelial or stromal cells were indicated by staining for cytokeratin (green) or desmin (green), respectively. DAPI (blue) was used to stain all nuclei. B, C. Confocal images for ERα or PR staining are shown in red, while the nuclei are shown by DAPI (blue). These experiments were repeated at least three times with similar results.

Supplement Fig. 3. Confocal analysis of ERβ in the non-adjacent co-culture. Staining for cytokeratin in epithelial or desmin in stromal cells is shown in green, Nuclei are shown by DAPI (blue). Note: Cell-specific staining for ERβ (red) is undetected in the non-adjacent culture.

Supplement Fig. 4. Adenoviral infection in the non-adjacent co-culture for epithelial and stromal cells. Bright-field (phase contrast) and fluorescent images are shown after infection with rAdGFP or rAdBipAs viruses in conjunction with E2 (10 nM) for 48 h.