Supplementary Figure 1. Representative images of metastases found in the liver (left panel) and peritoneal wall (right panel) of Pten $loxp/loxp$ Lkb1$loxp/loxp$ female mice bearing $Pten$ Lkb1-deficient endometrial tumors.
Supplementary Figure 2. Genotyping of endometrial tumors for the recombinant alleles of Pten (A) and Lkb1 (B). Genomic DNAs from Pten Lkb1-deficient endometrial tumors (lanes 1–4) or mouse tail (lanes 5) were extracted. PCR analysis was done as previously described (1, 2).

REFERENCE:

Supplementary Figure 3. Representative images of immunohistochemical staining of Pten (A) and Lkb1 (B) proteins in Pten Lkb1-deficient endometrial tumors counterstained with hematoxylin. Bars, 25µM. Normal uterus was shown as a control.
Supplementary Figure 4. Representative histopathology images of normal uterus (A) and precursor endometrial lesions (B) from Pten loxp/loxp Lkb1 loxp/loxp female mice with endometrium-specific co-deletion of Pten and Lkb1 (2 weeks post intrauterine injection of Ade-Cre). Scale bars, 25µM.
Supplementary Figure 5. Representative images of histopathology of endometrial lesions from Pten loxp/loxp female mice with endometrium-specific deletion of Pten. Mice were sacrificed 10 months post intrauterine injection of Ade-Cre. Scale bars, 50μM.
Supplementary Figure 6. Representative histopathology images of endometrial lesions from Lkb1/lox/loxp female mice with endometrium-specific deletion of Lkb1. Mice were sacrificed 10 months post intrauterine injection of Ade-Cre. Scale bars, 100µM.
Supplementary Figure 7. Representative images of immunohistochemical staining of CK8 in *Pten Lkb1*-deficient endometrial tumors. Scale bars, 50 µM (left panel); 25 µM (right panel).
Supplementary Figure 8. Representative histopathology images of metastases found in the lungs of PtenloxP/loxP Lkb1loxP/loxP female mice bearing Pten Lkb1-deficient endometrial tumors. Bars, 50µM.
Supplementary Figure 9. Representative histopathology image of *Pten Lkb1*-deficient endometrial cancer lesions with desmoplastic stromal response. Scale bar, 25µM.
Supplementary Figure 10. Representative images of immunohistochemical staining of proteins as indicated in normal uterus (upper panels, A and B) and Pten Lkb1-deficient endometrial tumors (lower panels, A and B). Scale bars, 25µM.
Supplementary Figure 11. Western blot analysis of LKB1 expression in ETN-1 and HEC108 cells with stable expression of vector or flag-tagged LKB1 wild-type. Vinculin was used as a loading control.