Figure S1. Immunohistochemical staining of PTCH1 protein obtained using four different antibodies, anti-PTCH1a, anti-PTCH1b, anti-PTCH1c and anti-PTCH1d. (A-D) HGSC and (E-H) LGSC (scale bar, 50 μm; magnified windows, x400 magnification). HGSC, high-grade serous ovarian carcinoma; LGSC, low-grade serous ovarian carcinoma; PTCH1, protein patched homolog 1.

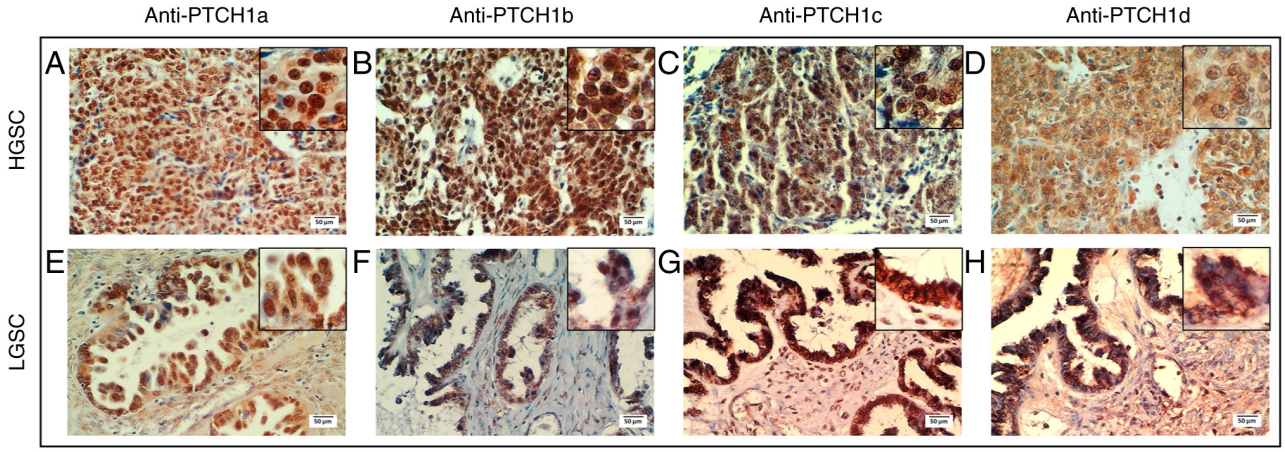

Figure S2. Immunofluorescence staining of PTCH1 protein in high-grade serous ovarian carcinoma cell lines, OVCAR8 and OVSAHO, and normal fallopian tube non-ciliated epithelial cell line FNE1. (A, first row) Staining with an anti-PTCH1b antibody. (A, second row) Nuclei stained with Hoechst. (A, third row) Merged images (scale bars, 10 μm). (B) Mean fluorescence intensity of PTCH1 protein in OVCAR8, OVSAHO and FNE1 cell lines. **P<0.0001. PTCH1, protein patched homolog 1.

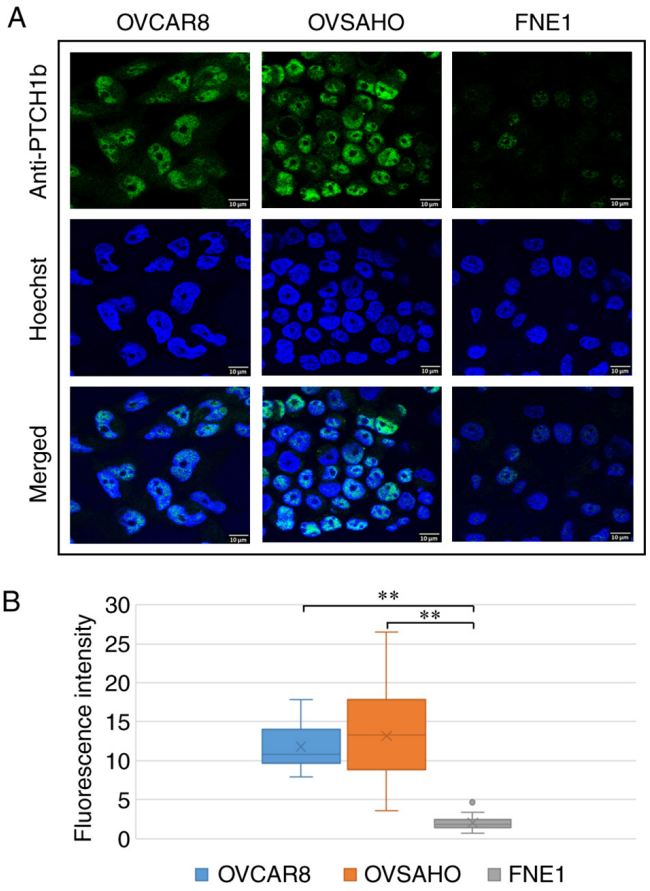

Figure S3. Immunofluorescence staining of PTCH1 protein in high-grade serous ovarian carcinoma cell lines, OVCAR8 and OVSAHO, and normal fallopian tube non-ciliated epithelial cell line FNE1. (A, first row) Staining with an anti-PTCH1c antibody. (A, second row) Nuclei stained with Hoechst. (A, third row) Merged images (scale bars, 10 μm). (B) Mean fluorescence intensity of PTCH1 protein in OVCAR8, OVSAHO and FNE1 cell lines. **P<0.0001. PTCH1, protein patched homolog 1.

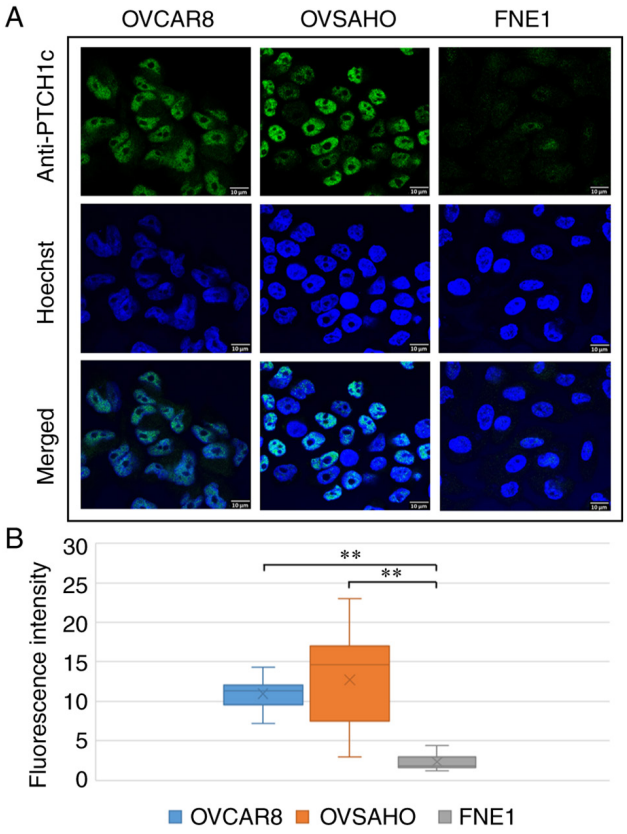

Figure S4. Subcellular localization of PTCH1 protein in high-grade serous ovarian carcinoma cell lines, OVCAR8 and OVSAHO, and normal fallopian tube non-ciliated epithelial cell line FNE1. Western blotting using (A) anti-PTCH1b (B) and anti-PTCH1c antibodies. PTCH1, protein patched homolog 1; input, total proteins; cytopl., cytoplasmic proteins; membr., membrane proteins; nucl., nuclear soluble proteins; chrom., chromatin-bound proteins; cytosk., cytoskeletal proteins; aa, amino acids.