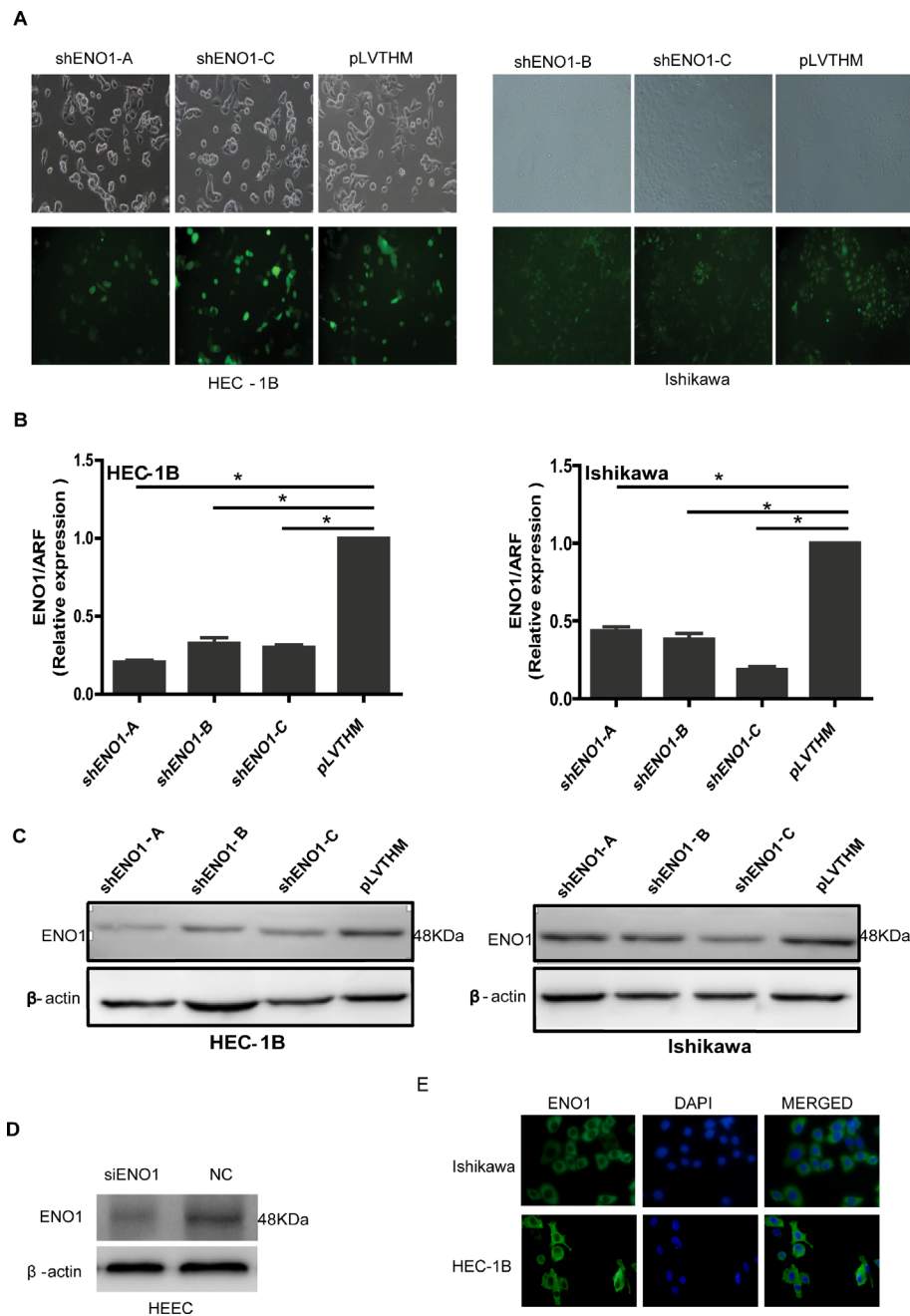
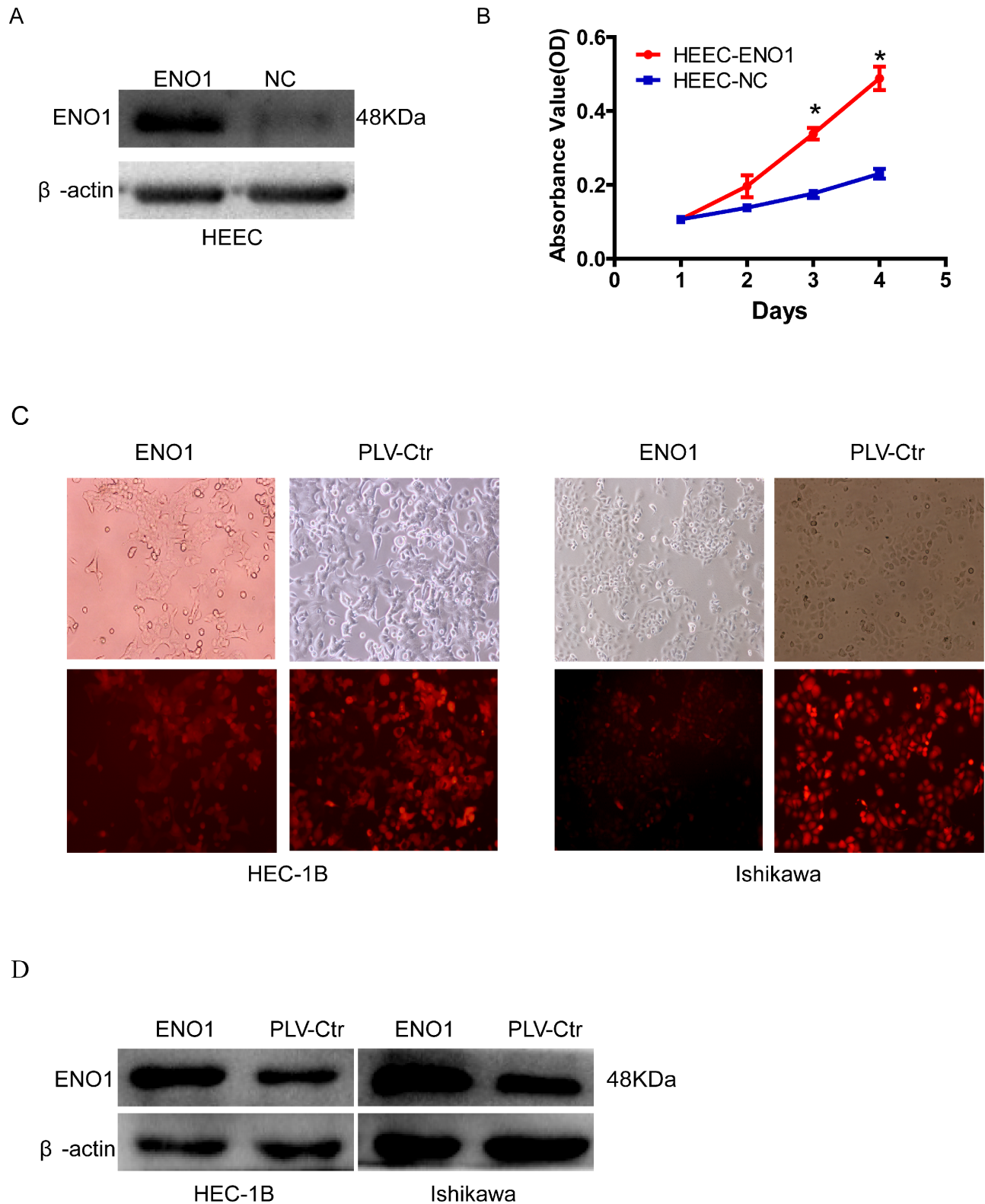


SUPPLEMENTARY FIGURES

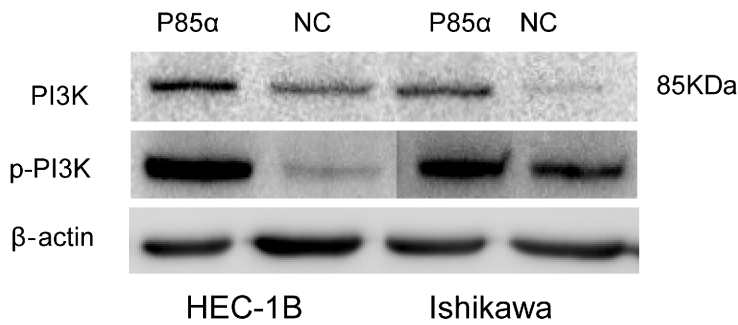


Supplementary Figure S1: Efficiency of shRNA or siRNA knock down of ENO1 in human EC cell lines HEC-1B and Ishikawa and HEEC. **A.** HEC-1B and Ishikawa were transfected by different lentivirus which contain sh-ENO1 and PLVTHM. **B.** RT-PCR showing transcriptional levels of the ENO1 gene with ARF used as a loading control. Bar graph showed the relative expression of mRNA among the groups. Data were presented as mean \pm SEM for three independent experiments ($*P < 0.05$). **C.** Western blotting showing protein expression levels in shENO1 or PLVTHM cells. A representative image of three different experiments was shown. β -actin served as a loading control. **D.** Western blotting showing protein expression levels in siENO1-HEEC and HEEC-NC cells. Each experiment was repeated three times. **E.** Immunofluorescence staining of ENO1 in Ishikawa and HEC-1B cells (magnification, $\times 1000$).

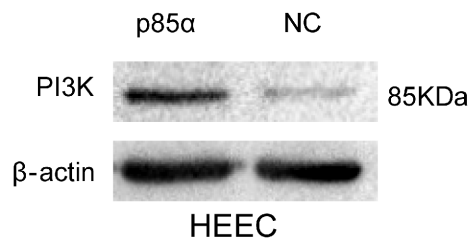


Supplementary Figure S2: Overexpressing ENO1 in HECC and EC cells. **A.** Overexpressing ENO1 increased the protein level of ENO1 in HECC detected by western blotting. β -actin served as the internal control. Each experiment was repeated three times. **B.** MTT assay showed that elevated ENO1 induced cell proliferation in HECC. Data were presented as mean \pm SEM for three independent experiments ($*P < 0.05$). **C.** HEC-1B and Ishikawa were transfected by lentivirus which contain full-length ENO1 and RFP empty vector (PLV-Ctr). **D.** Western blotting showing protein expression levels in ENO1 or PLV-Ctr cells. A representative image of three different experiments was shown. β -actin served as a loading control.

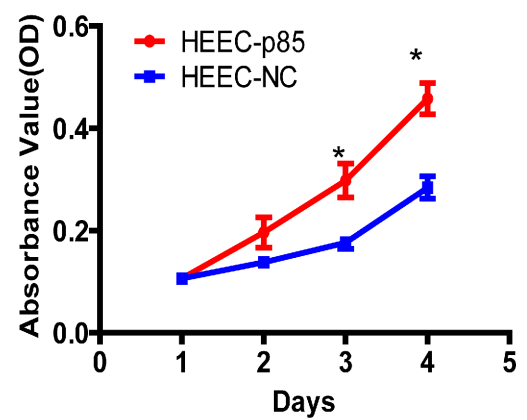
A



B



C



Supplementary Figure S3: Overexpression of P85 expression in EC cells and HECC. **A.** Overexpressing p85 increased the protein level of PI3K and p-PI3K in EC cells detected by western blotting. β-actin served as the internal control. Each experiment was repeated three times. **B.** Western blotting showing PI3K protein expression levels in P85 overexpressed HECC and its control cells. A representative image of three different experiments was shown. β-actin served as a loading control. **D.** Effect of p85 overexpressed on HECC cell proliferation as measured by MTT assay. Data were presented as mean ± SEM for three independent experiments ($*P < 0.05$).