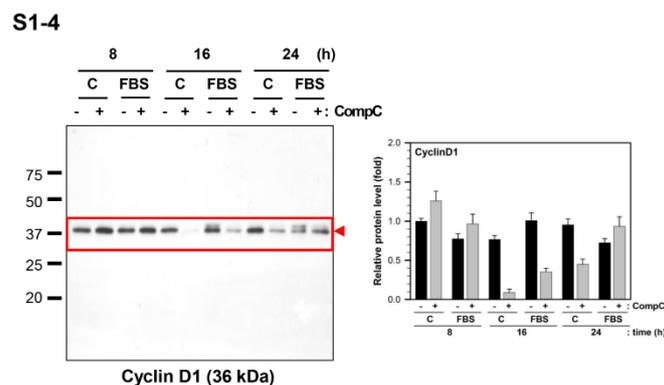
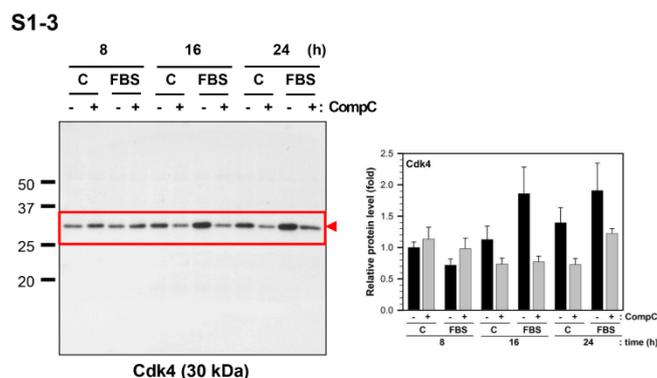
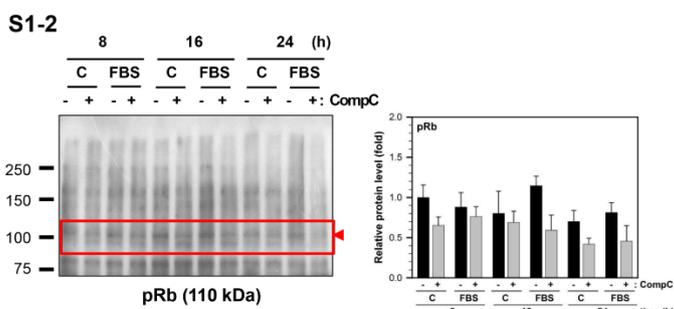
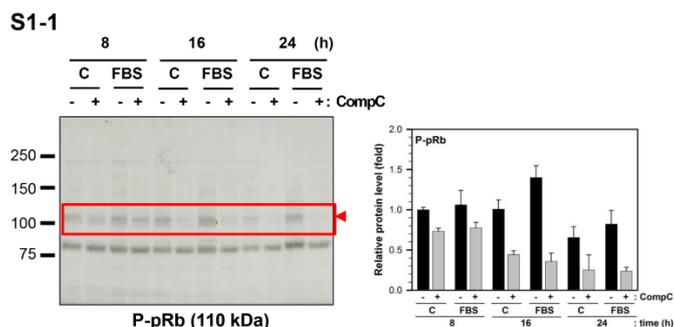
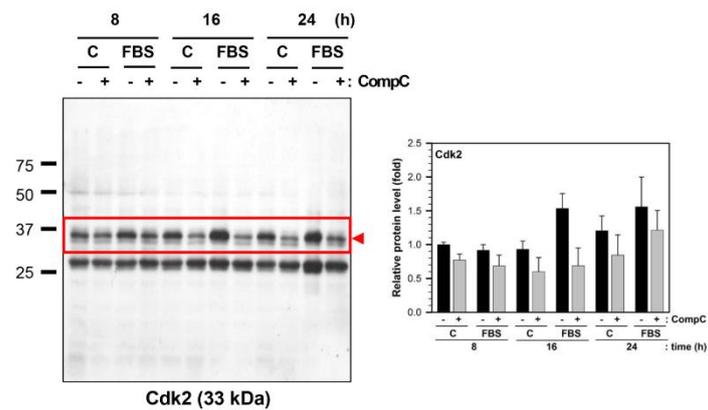


Supplementary Materials: Compound C Inhibits B16-F1 Tumor Growth in a Syngeneic Mouse Model Via the Blockage of Cell Cycle Progression and Angiogenesis

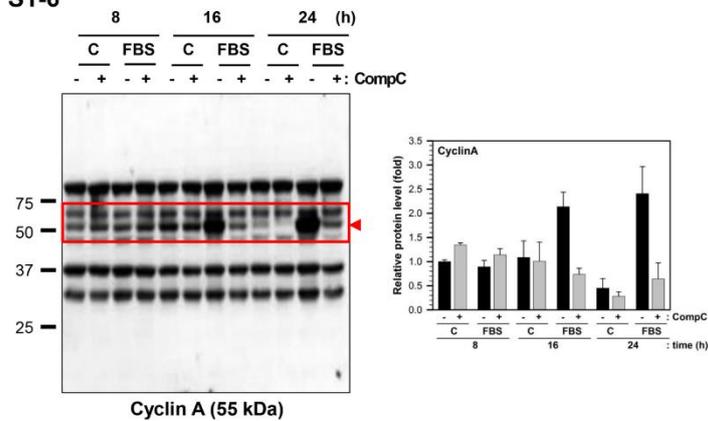
Yun Taek Lee, So Hyun Lim, Boram Lee, Insug Kang and Eui-Ju Yeo



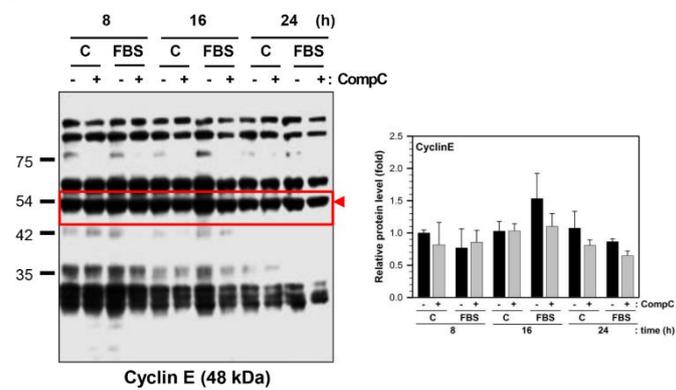
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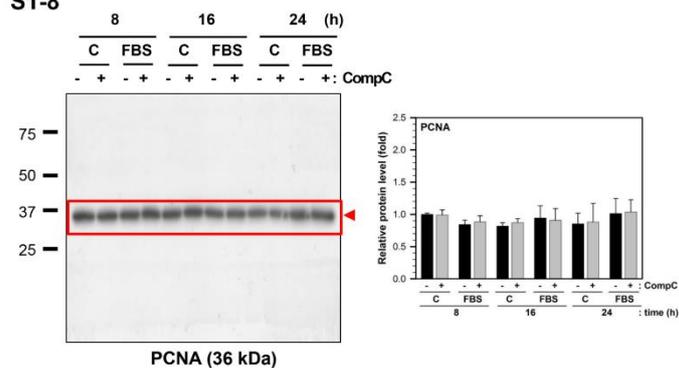
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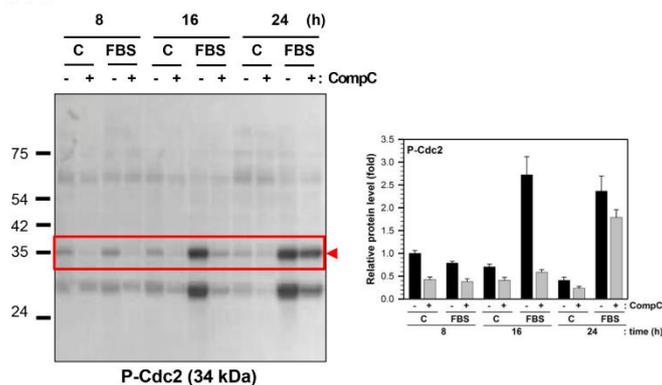
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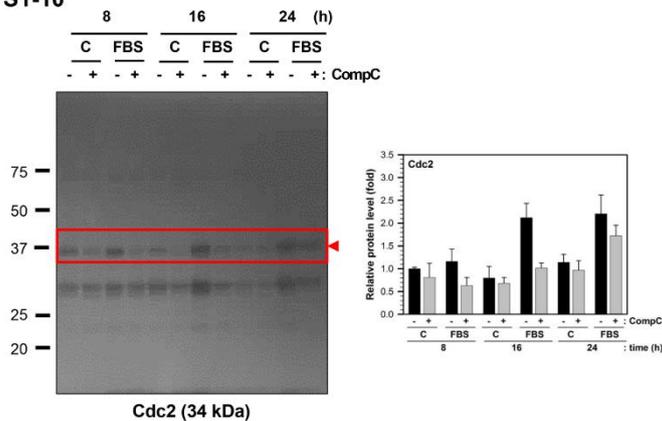
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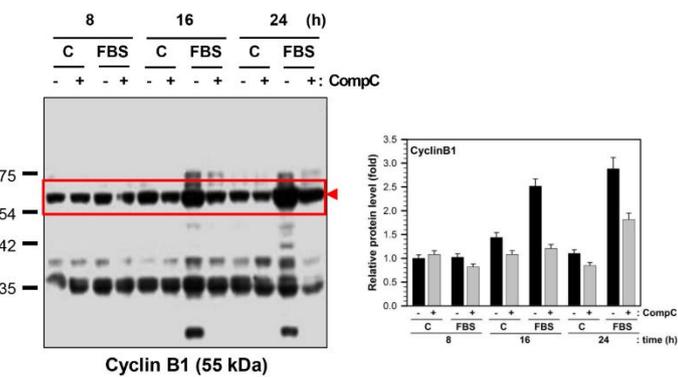
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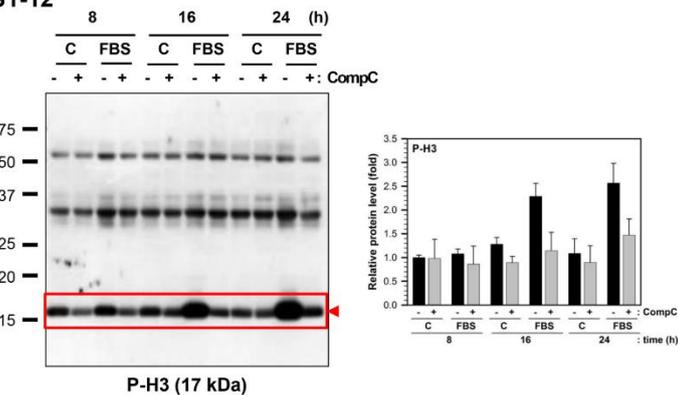
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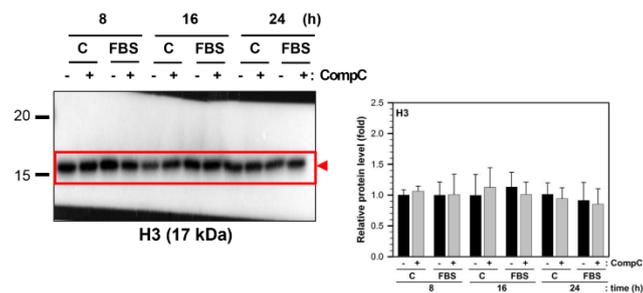
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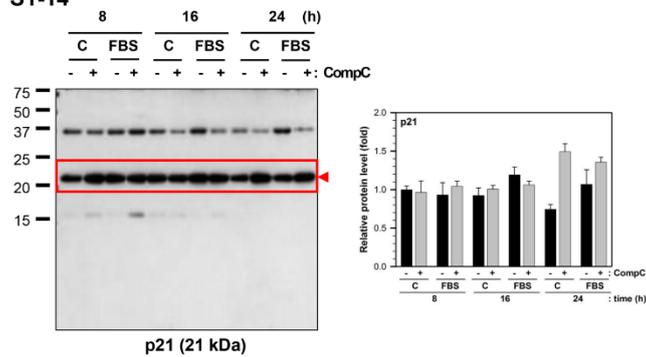
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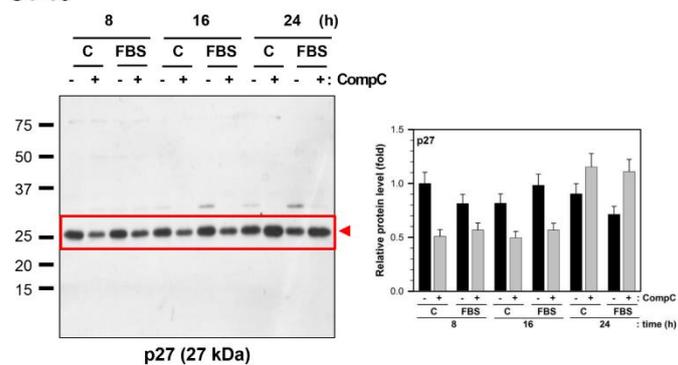
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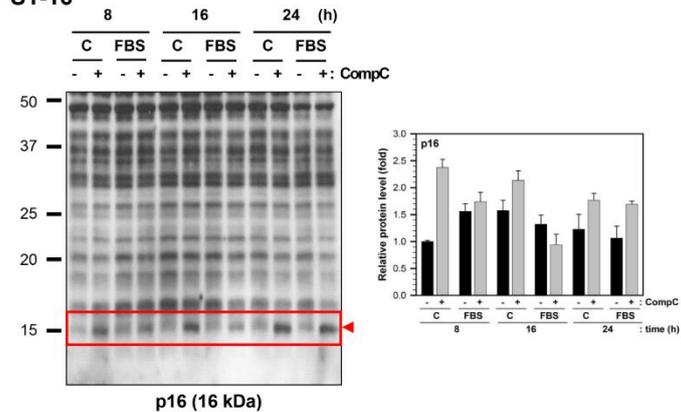
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S1-15



S1-16



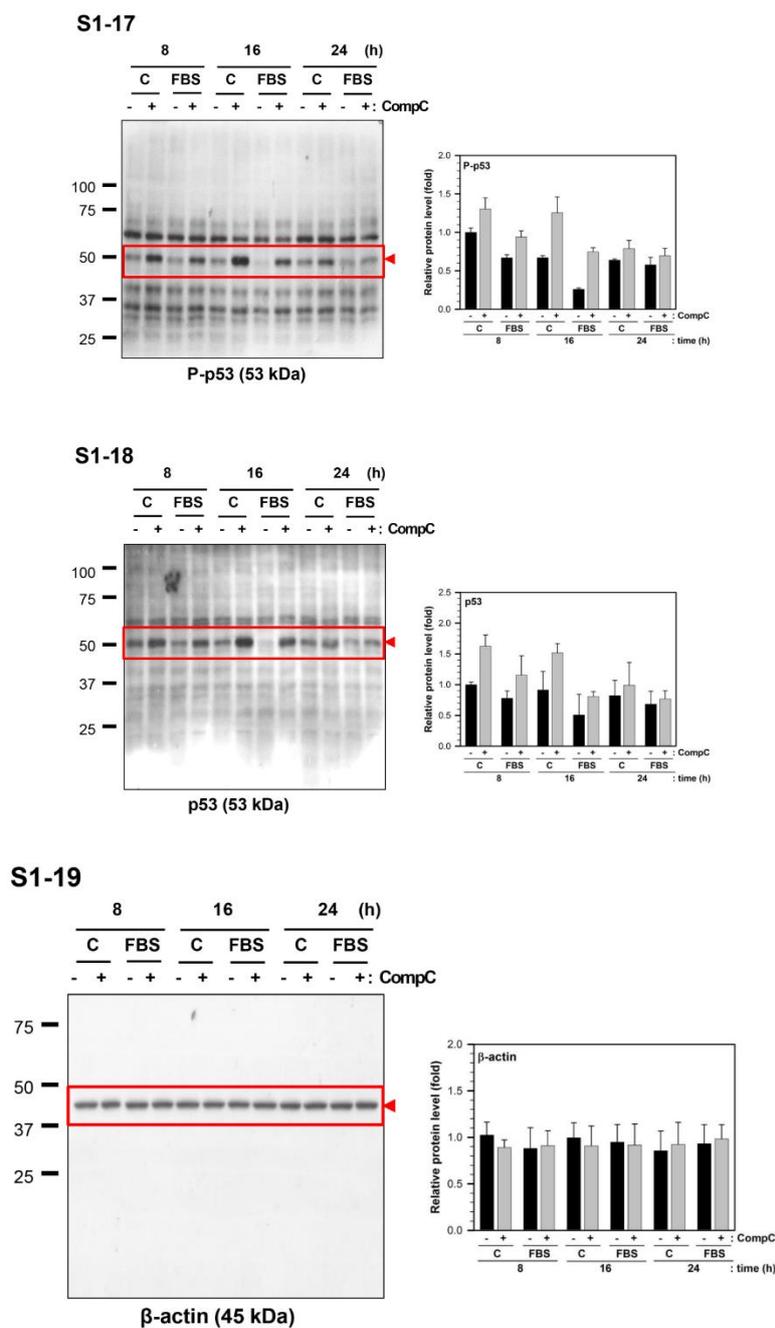
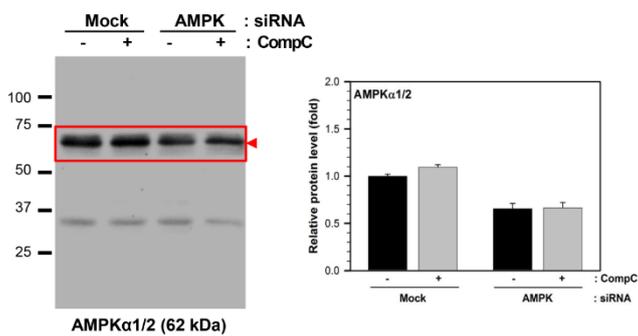
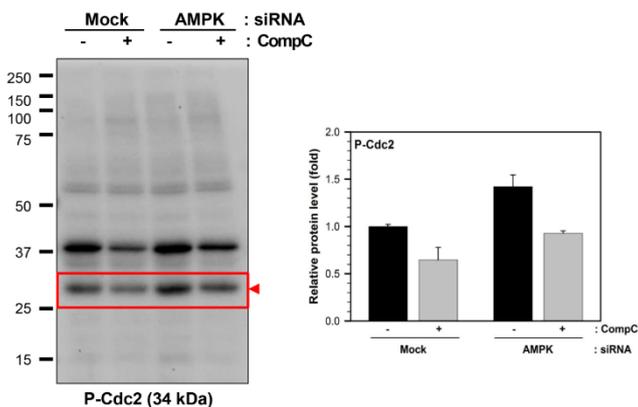


Figure S1. Quiescent cells were stimulated with 10% FBS for the indicated times (8, 16, and 24 h) in the presence of vehicle (–) or 10 μ M CompC (+). Cell lysates were analyzed by western blot analysis using antibodies against total and phosphorylated pRb (P-pRb), Cdks, cyclins, histone H3, Cdk inhibitors, and β -actin as an internal control. The band density of β -actin was used as a normalization control for densitometry analysis of each blot. A representative whole blot and a graph with error bars for western blot analysis of each protein are shown side by side. (supplementary data for Figure 2A,B)

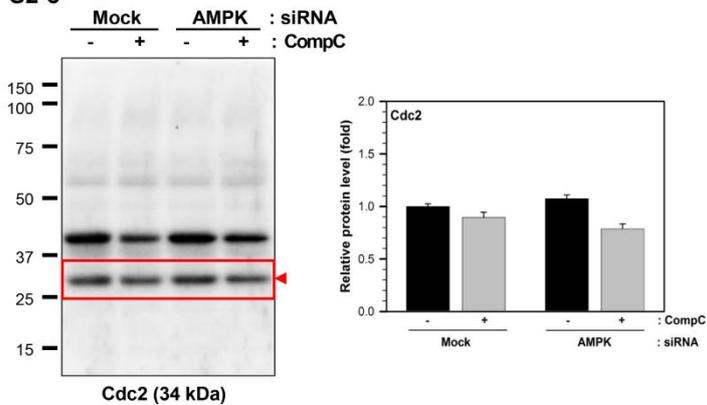
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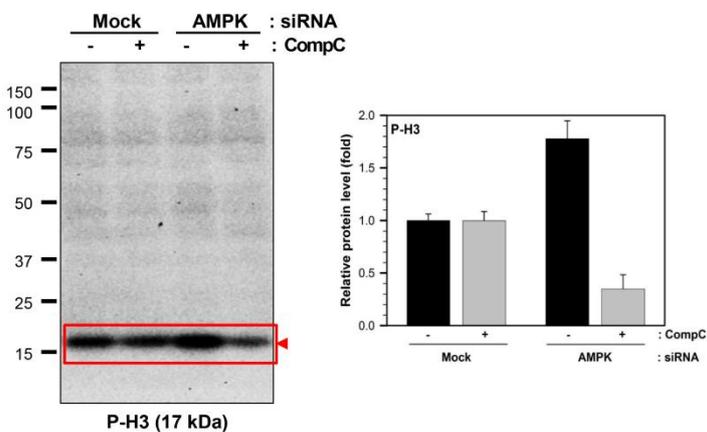
S2-2



S2-3



S2-4



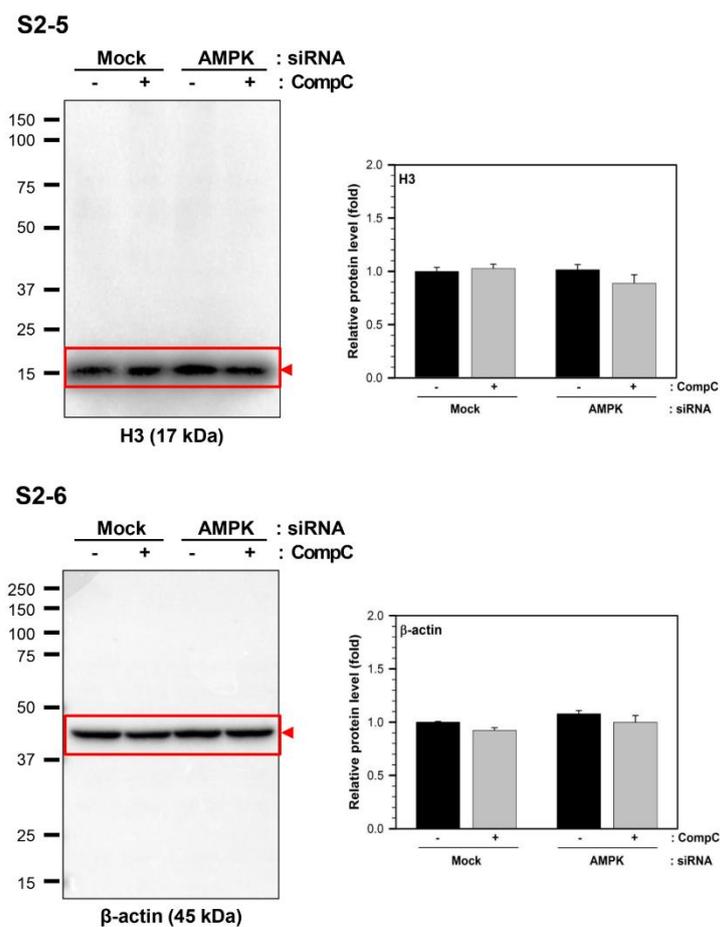
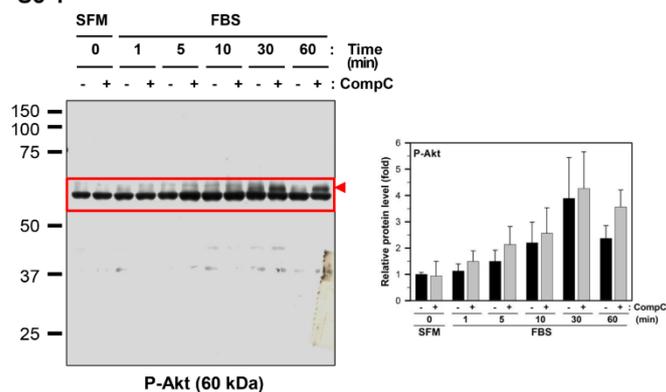
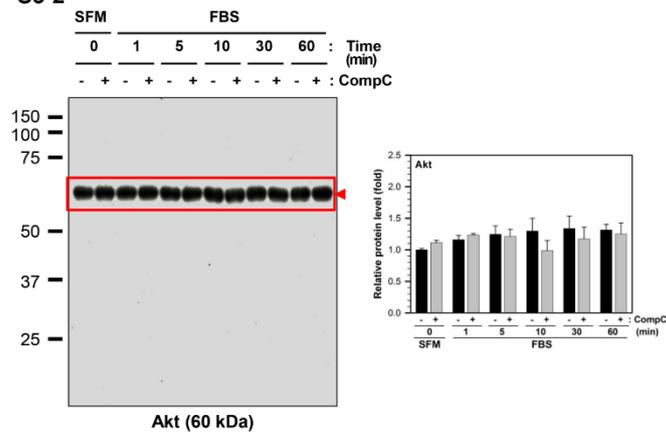


Figure S2. B16-F1 cells were transfected with mock or AMPK α 1/2 siRNA for 48 h and then stimulated with 10% FBS in the presence of vehicle (-) or 10 μ M CompC (+) for 16 h. Cell lysates were analyzed by western blot analysis using antibodies against AMPK α 1/2, total and phosphorylated Cdc2, histone H3, and β -actin. The band density of β -actin was used as a normalization control for densitometry analysis of each blot. A representative whole blot and a graph with error bars for western blot analysis of each protein are shown side by side. (supplementary data for Figure 2C)

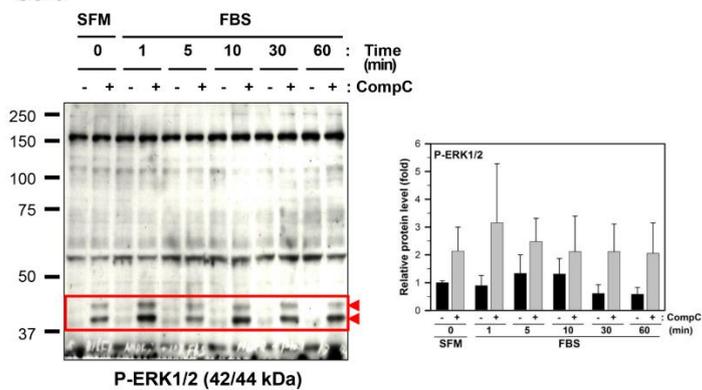
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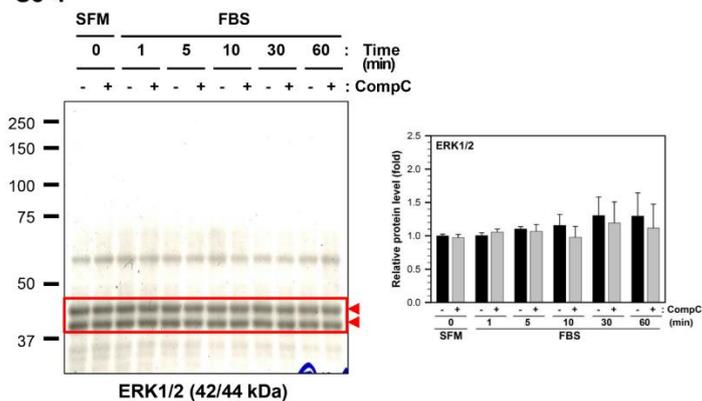
S3-2



S3-3



S3-4



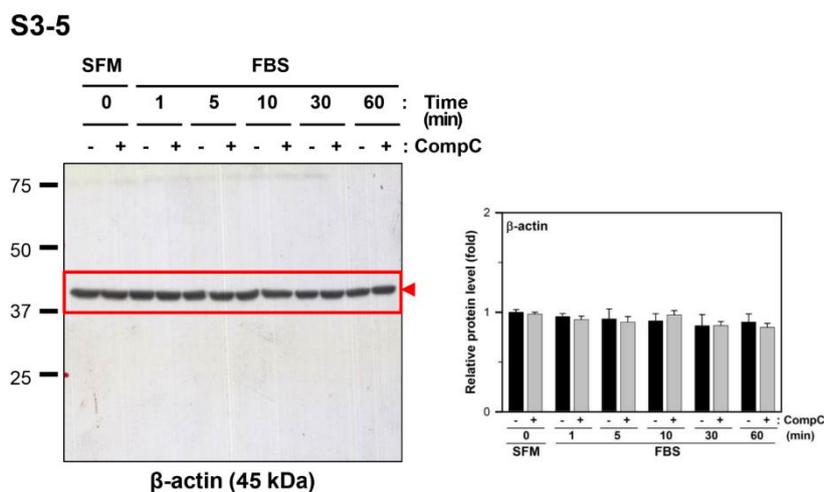
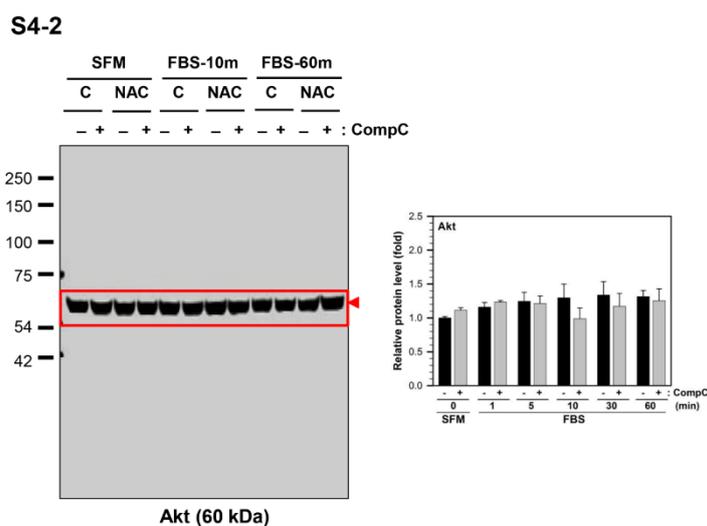
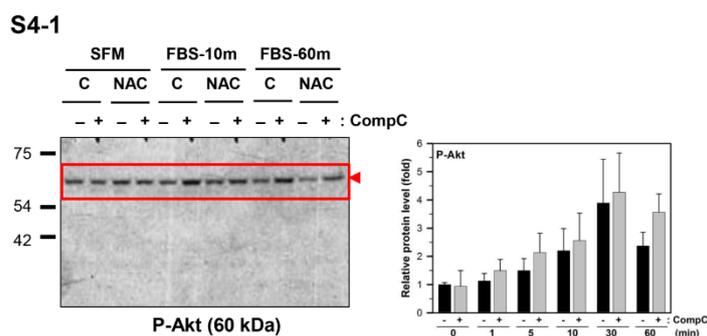
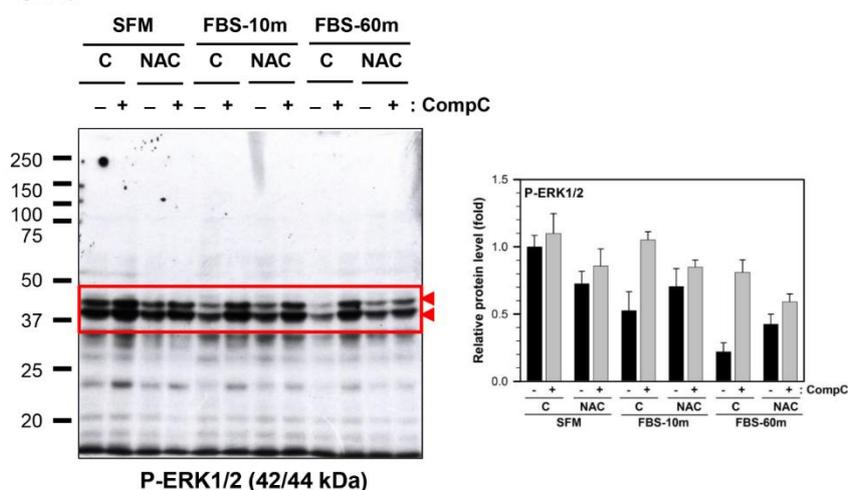


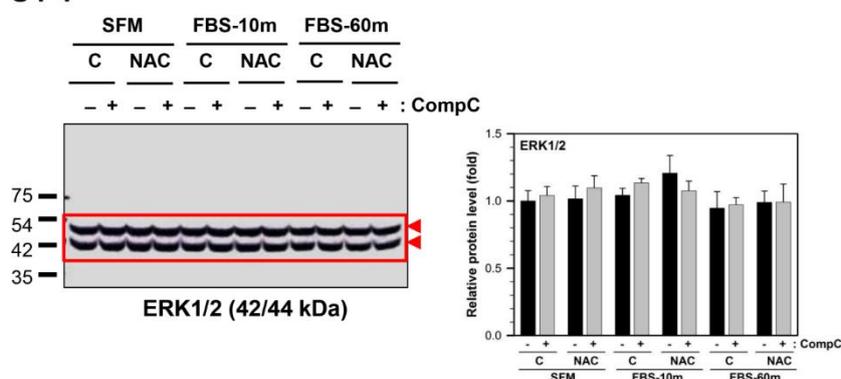
Figure S3. B16-F1 cells were stimulated with 10% FBS for the indicated times in the presence of vehicle or 10 μ M CompC. Cell lysates were analyzed by western blot analysis using antibodies against total and phosphorylated Akt (P-Akt) and ERK1/2 (P-ERK1/2), and β -actin. The band density of β -actin was used as a normalization control for densitometry analysis of each blot. A representative whole blot and a graph with error bars for western blot analysis of each protein are shown side by side. (supplementary data for Figure 3A)



S4-3



S4-4



S4-5

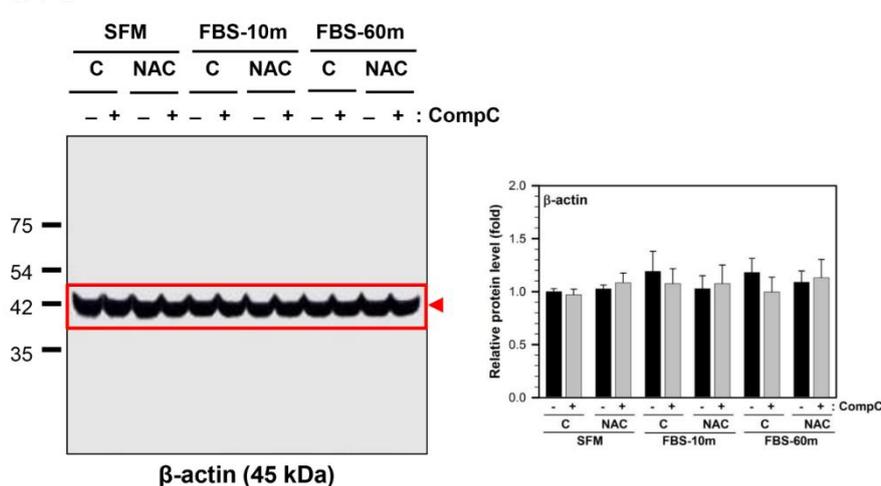
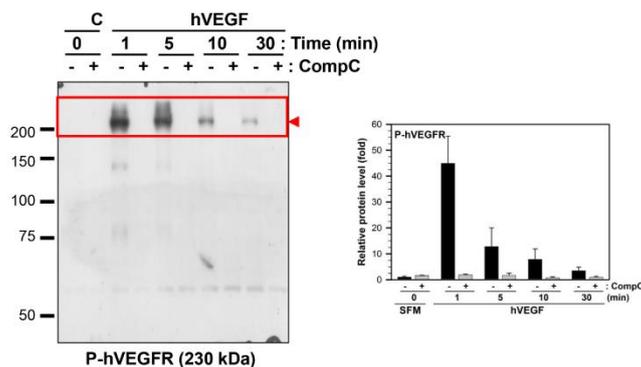
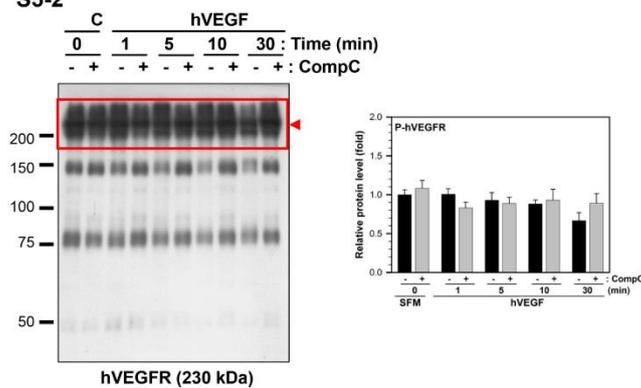


Figure S4. B16-F1 cells were serum-starved by incubation with SFM for 24 h. Cells were pretreated with vehicle alone, 5 mM NAC and/or 10 μM CompC for 1 h. Cells were then stimulated with FBS for 10 and 60 min. Cell lysates were analyzed by western blot analysis using antibodies against total and phosphorylated Akt (P-Akt) and ERK1/2 (P-ERK1/2), and β-actin. The band density of β-actin was used as a normalization control for densitometry analysis of each blot. A representative whole blot and a graph with error bars for western blot analysis of each protein are shown side by side. (supplementary data for Figure 3B)

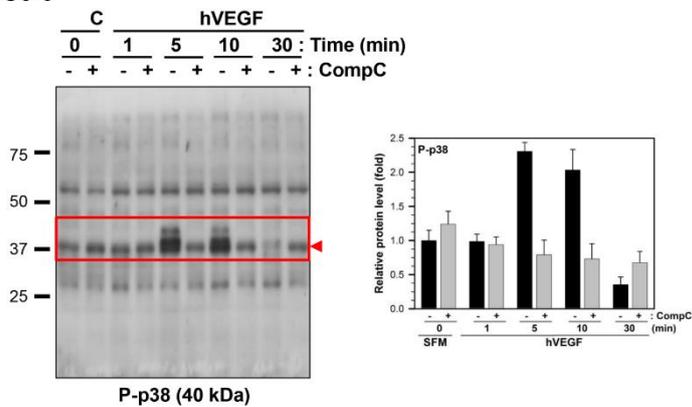
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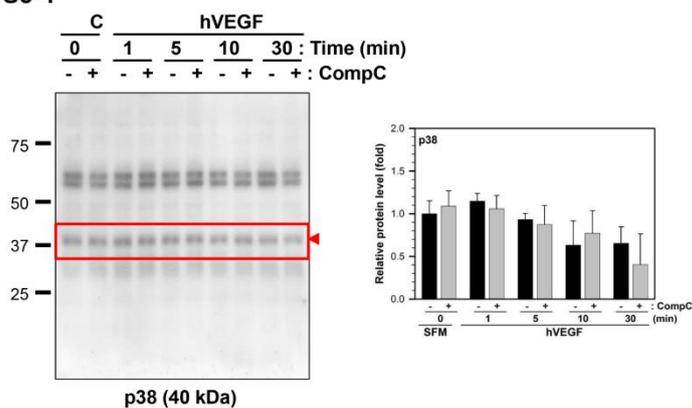
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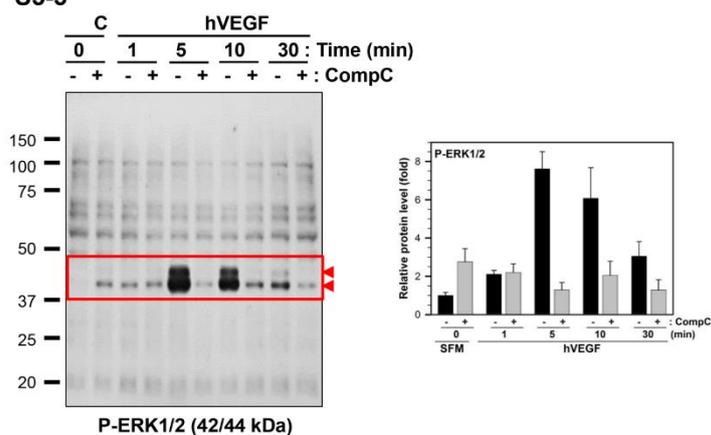
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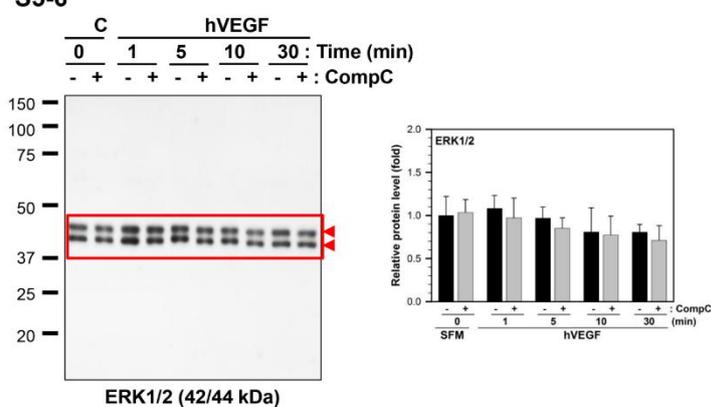
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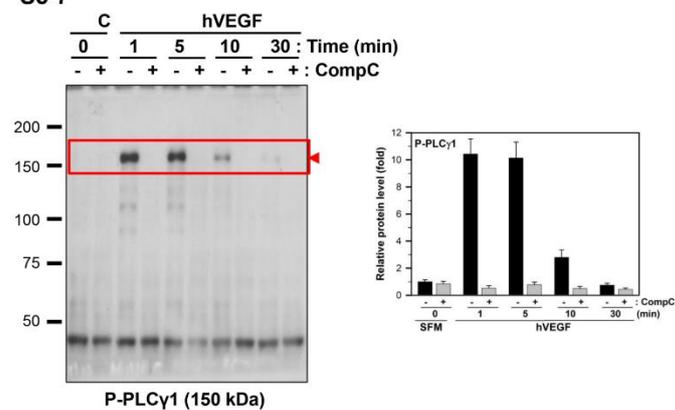
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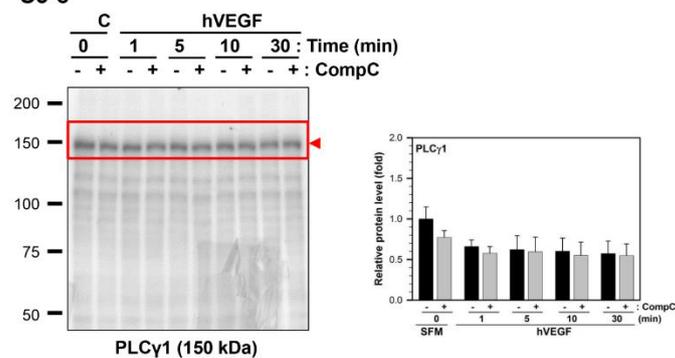
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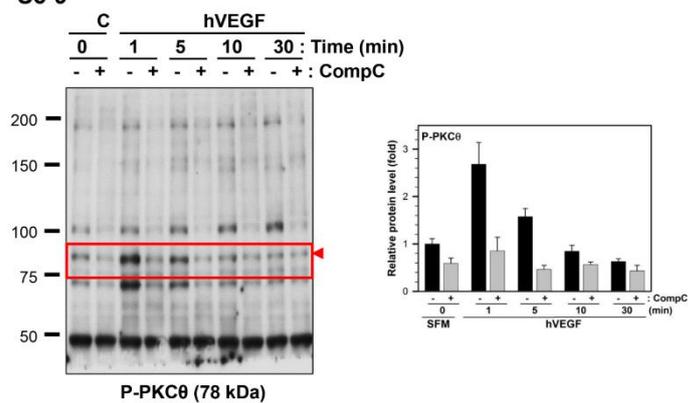
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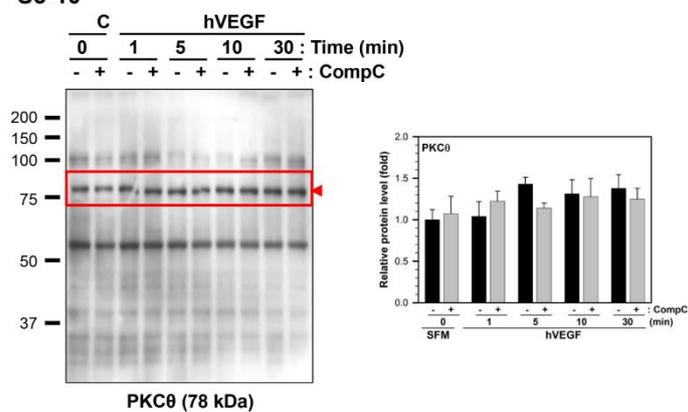
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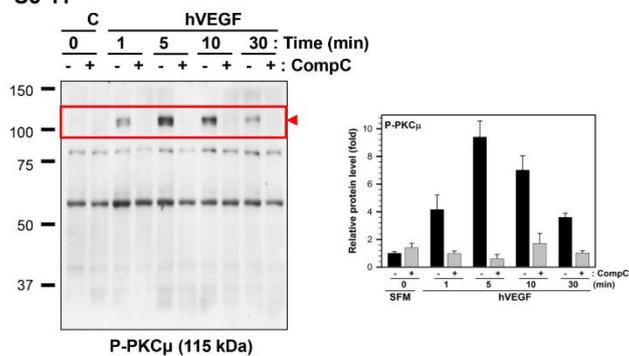
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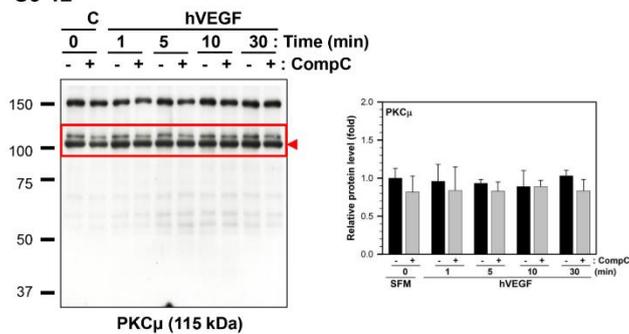
S5-10



S5-11



S5-12



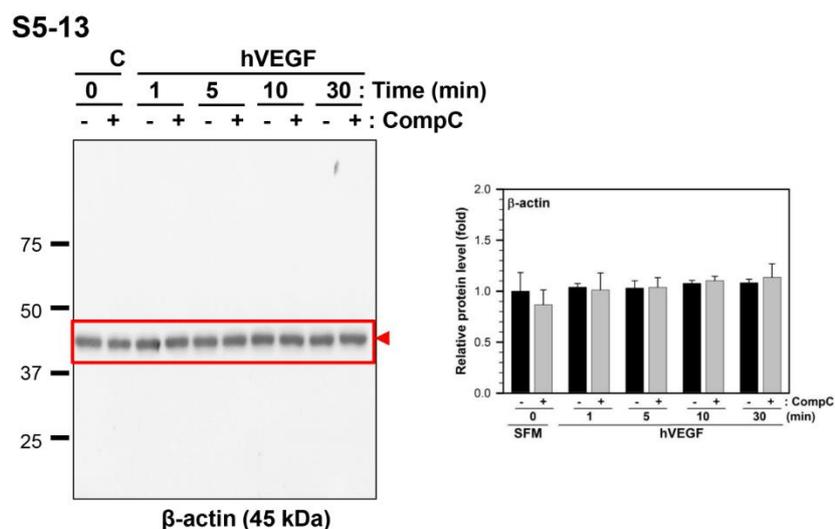


Figure S5. HUVECs were serum-starved by incubation with EBM for 24 h. Cells were treated with EBM containing 50 ng/ml hVEGF for the indicated times in the presence of vehicle (–) or 10 μ M CompC (+). Cell lysates were analyzed by western blotting with antibodies against total and phosphorylated hVEGFR and other signaling proteins. The band density of β -actin was used as a normalization control for densitometry analysis of each blot. A representative whole blot and a graph with error bars for western blot analysis of each protein are shown side by side. (supplementary data for Figure 4F)



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