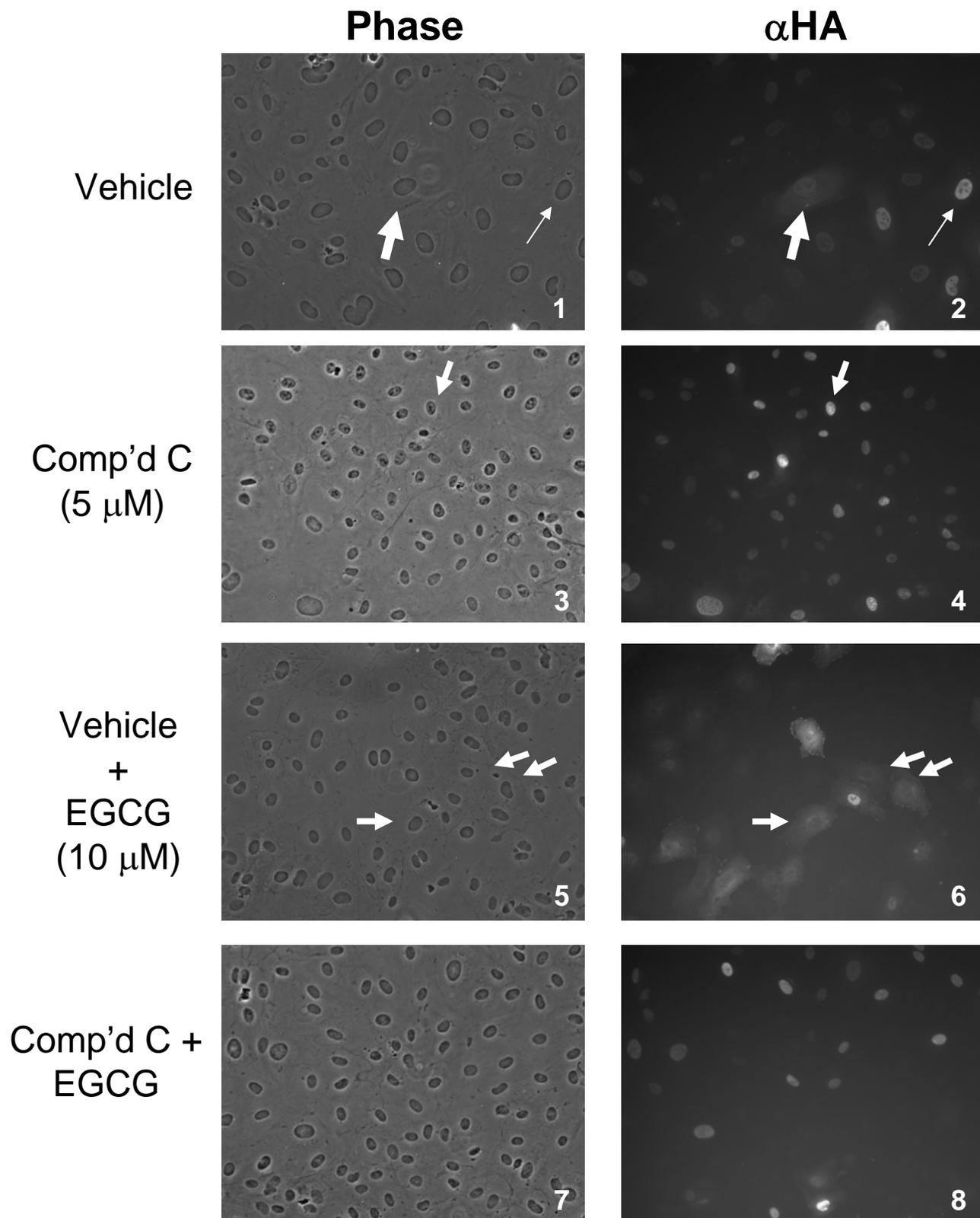
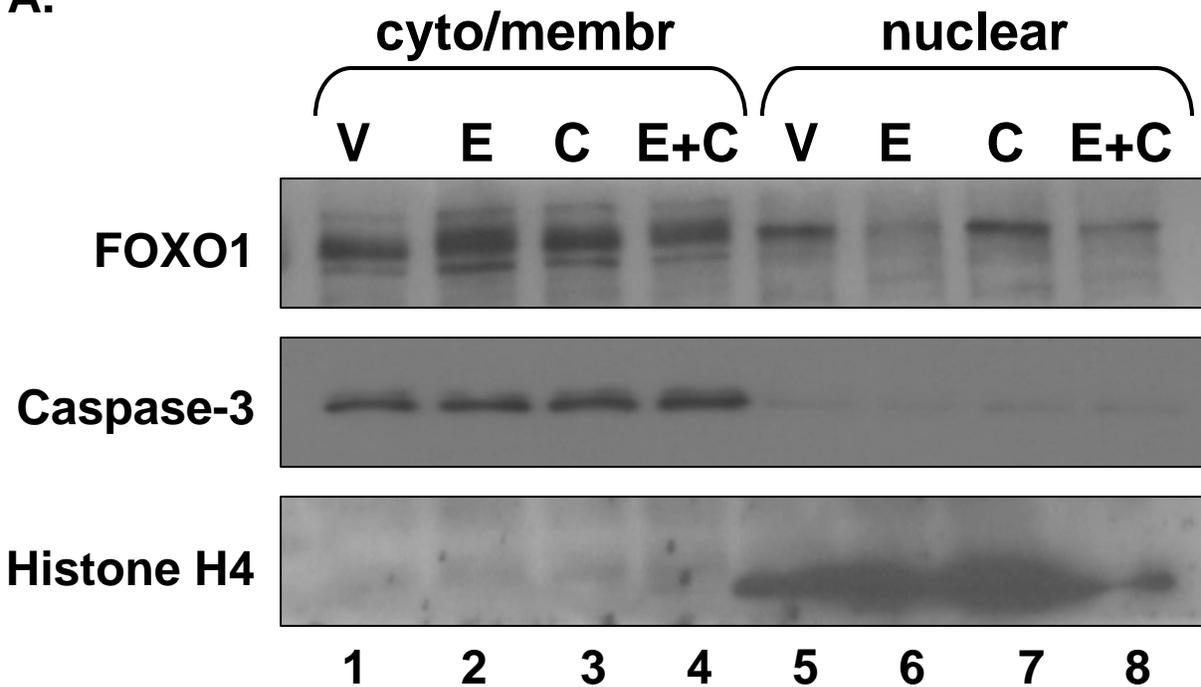


Supplemental Figure 1

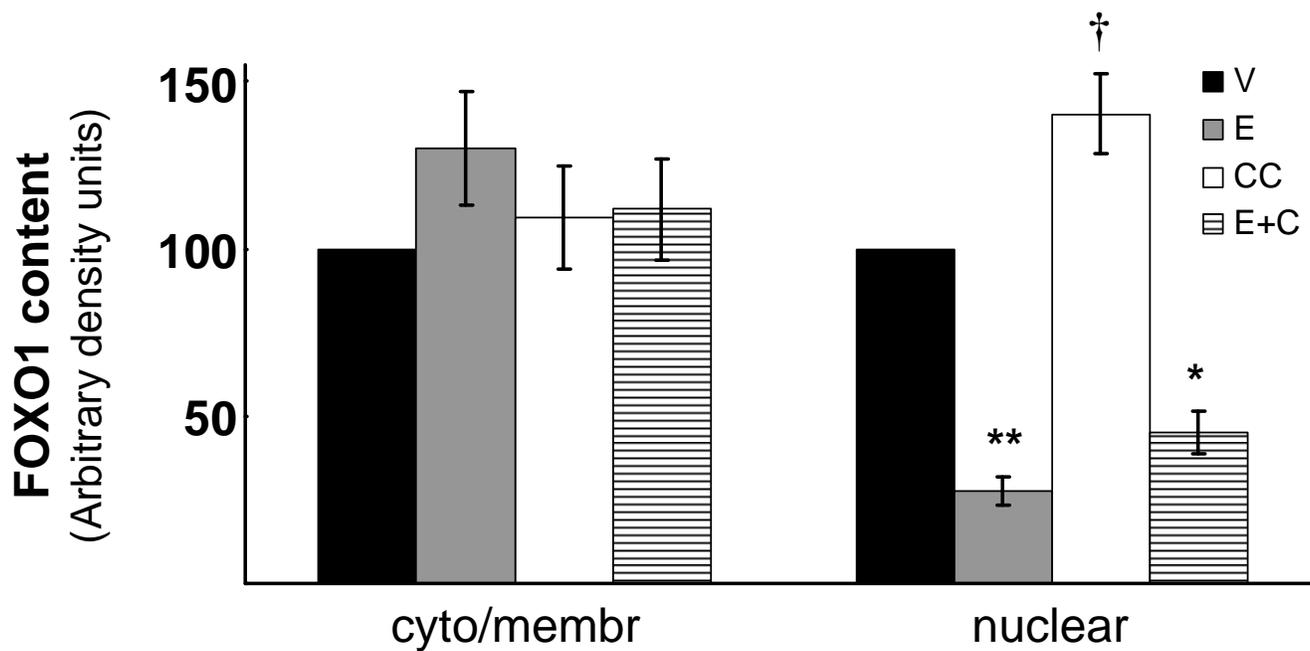


Supplemental Figure 2

A.



B.



1 **Supplementary Figure 1. Inhibition of AMPK increases FOXO1 nuclear localization and blocks**
2 **EGCG-mediated translocation to the cytoplasm.** HAECs infected with adenoviral constructs for HA-
3 tagged WT Foxo1 were pre-treated with vehicle or compound C (AMPK inhibitor) for 30 min in the
4 absence or presence of EGCG treatment for 30 min as described in Methods. FOXO1 localization was
5 assessed by immunocytochemistry using anti-HA antibodies as described in Methods. Representative
6 phase-contrast views and epifluorescent images of cells revealing anti-HA immunostaining are shown for
7 experiments that were repeated independently four times. In vehicle-treated cells (panels 1 and 2), the
8 thick arrow highlights a cell where HA staining is present in both the nucleus and cytoplasm. The thin
9 arrow shows a cell with only nuclear HA immunoreactivity. In Compound C-treated cells (panels 3 and
10 4), the arrows indicate a cell with only nuclear HA immunoreactivity. In the panels with EGCG-treated
11 cells (panels 5 and 6), three arrows highlight cells in which HA immunoreactivity is both cytoplasmic and
12 perinuclear (no nuclear HA immunoreactivity).

13
14 **Supplementary Figure 2. EGCG-induced reduction of FOXO1 in nuclear-enriched cell fractions is**
15 **inhibited by Compound C.** **A.** HAECs were treated and analyzed by subcellular fractionation and
16 immunoblot analysis as described in Methods following vehicle (V), EGCG (E), Compound C (C), or
17 Compound C pretreatment followed by EGCG treatment (E+C). The figure is representative of three
18 independent experiments. The membrane/cytoplasmic-enriched fractions are presented in lanes 1-4, and
19 the nuclear-enriched fractions are presented in lanes 5-8. Immunoblot analysis of pro-caspase 3 and
20 histone H4 demonstrate consistency of the subcellular preparations. **B.** Quantification of the FOXO1
21 immunoblots in A. Vehicle-treated fractions are arbitrarily set to 100. No statistical difference was
22 detected in the cytoplasmic/membrane fractions following treatment with EGCG or Compound C.
23 However, EGCG treatment of HAECs significantly reduced the appearance of FOXO1 in the nuclear-
24 enriched fraction (Triton X-100-insoluble; lane 6 and 8 in A; ** $p < 0.0001$ and * $p = 0.019$ by two-way
25 ANOVA). Compound C increased FOXO1 appearance in the nuclear-enriched fraction (lane 7; † $p =$
26 0.0001 by two-way ANOVA).