performed in triplicate. *: statistically significant difference from mock control at $p<0.05$. Statistical significance is shown with p-value for compared groups indicated by dotted line.

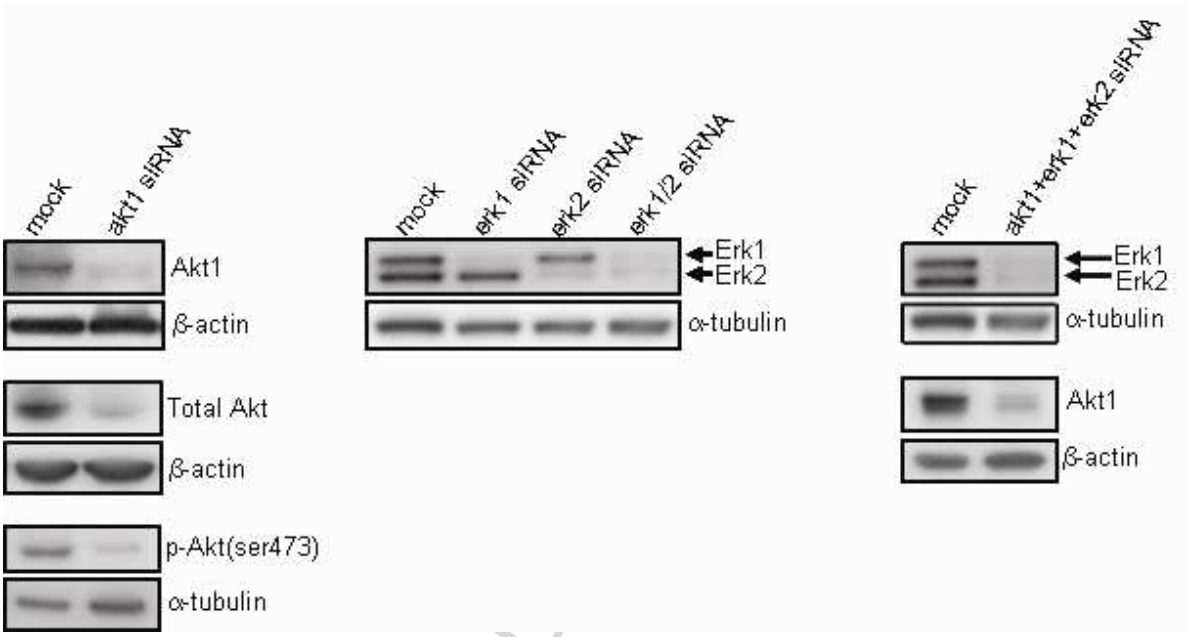
Figure Legends for Supplemental data

Suppl. Fig.1 (A) Protein levels for Akt1, total Akt, and p-Akt(ser473) after transfection with mock or akt1 siRNA at 72 hr post-transfection are shown. **(B)** Protein levels for Erk1 and Erk2 after transfection with mock, erk1, erk2, or erk1/2 siRNA at 72 hr post-transfection are shown. **(C)** Protein levels for Erk1, Erk2, and Akt1 after transfection with mock, or erk1/2 + akt1 siRNA at 72 hr post-transfection are shown. α-tublin or β-actin is served as loading control.

Suppl. Fig.2 (A) Cell proliferation assay (CellTiter 96® AQueous One Solution, Promega) was carried out for HLFs at 24 hr post-transfection with mock or c/a Akt1 plasmid incubated with 0, 1, 2, and 3 μM Na_2CrO_4 for (i) 24 hr or (ii) 48 hr. *: statistically significant difference from mock control at $p<0.05$. **(B)** HLFs were transfected with mock or c/a Akt1 plasmid via nucleofection. HLFs at 48 hr post-transfection were incubated with 0, 1, and 2 μM Na_2CrO_4 for 24 hr, then seeded for colony formation. Data are expressed as percent clonogenic survival of control in the absence of Cr(VI), and are the average ± SE from 2 experiments performed in triplicate.

Suppl. Fig.3 (A) Protein levels for total Mek1, HA-tag, and α-tubulin after transfection with mock or c/a Mek1 plasmid at 1, 2, 3, 4, and 5 days post-transfection are shown. **(B)** Protein levels for p-Akt(ser473), HA-tag, and β-actin after transfection with mock or c/a Akt1 plasmid at 1, 2, 3, 4, and 5 days post-transfection are shown.

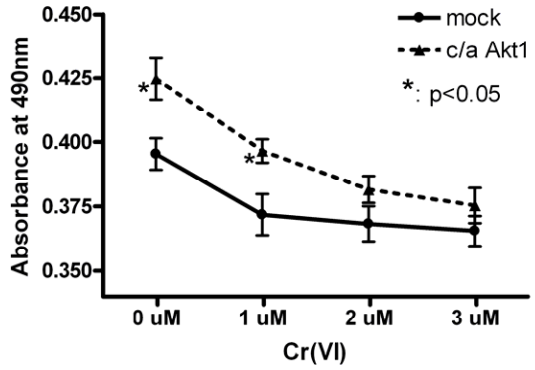
Supplemental Fig. 1



Supplemental Fig. 2

(A)

(i)



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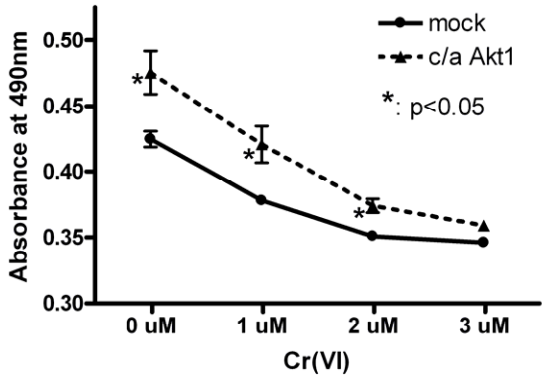

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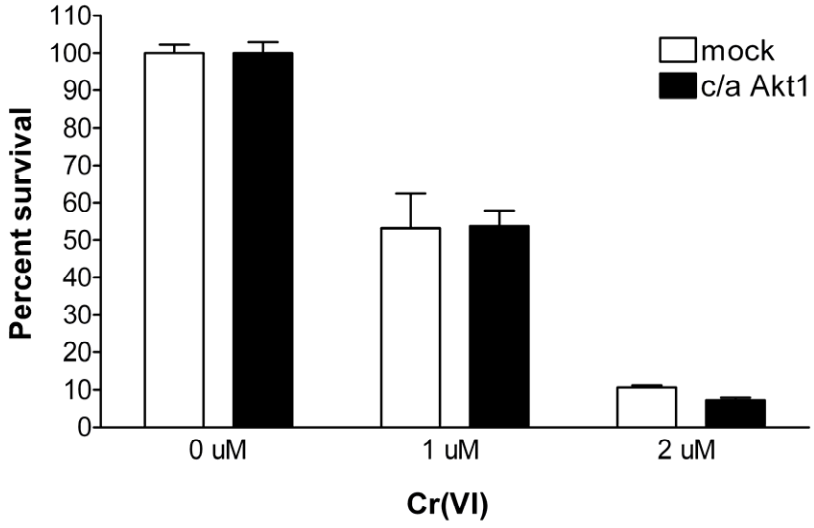
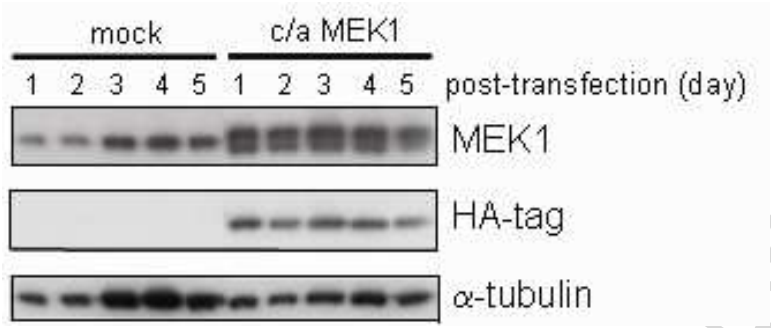


Supplemental Fig. 3

(A)



(B)