Figure S2. Effects of SIRT inhibitors on CD41 expression, total-cell expansion, viability, and Mk apoptosis. mPB $CD34^+$ cells were cultured with 100 ng/mL Tpo. On day 5 cultures were supplemented with (**A-D**) 10 μM cambinol or (**E-H**) 10 μM AGK2. For comparison, replicate cultures were either supplemented with 6.25 mM NIC on day 5 or maintained with Tpo alone. (**A,E**) The percentage of $CD41^+$ cells in the viable population. (**B,F**) Total-cell fold-expansion. (**C,G**) The percentage of viable cells in culture. (**D,H**) The percentage of apoptotic Mks in the viable population. Data shown represent the mean ± SEM for n = 12 (**A-D**) or n = 11 (**E-H**) experiments. Based on a paired t-test, values of $p < 0.0005$ (x) and $p < 0.05$ (*) are indicated for the various time points in comparison to the Tpo only culture.

Figure S3. NIC increases acetylation of nucleosomes. Whole cell lysates were loaded into SDS-PAGE gels. After electrophoresis, the proteins were transferred to nitrocellulose membranes for Western blots. After probing for acetylated lysine residues, the blots were stripped and probed for nucleosomes. Corresponding densitometry analysis is given. The blot shown is representative of four biological experiments.

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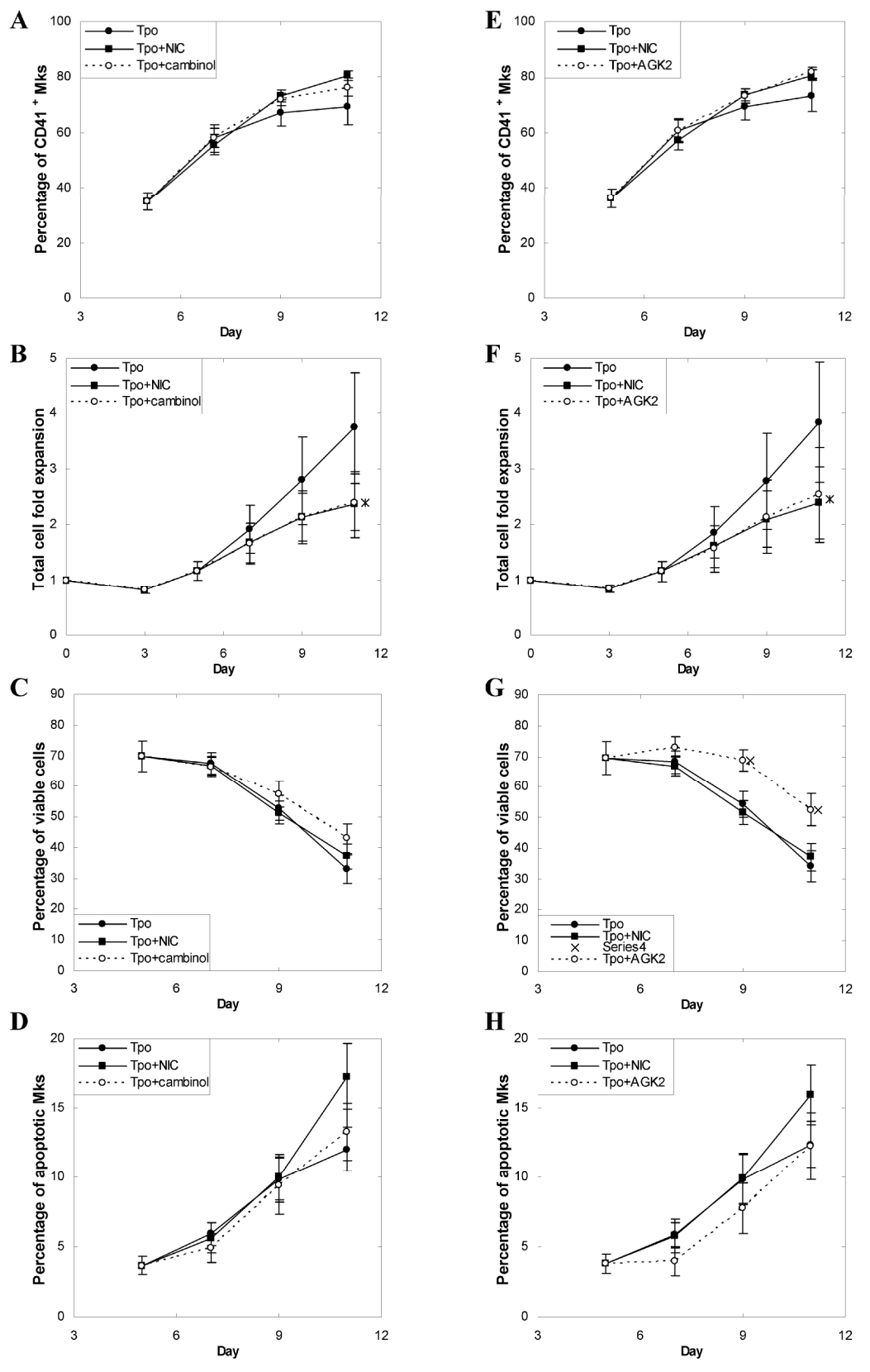
A
Tpo
Tpo+NIC
Tpo+cambinol
Percentage of CD41 + Mks
Day
E
Tpo
Tpo+NIC
Tpo+AGK2
Percentage of CD41 + Mks
Day
B
Tpo
Tpo+NIC
Tpo+cambinol
Total cell fold expansion
Day
F
Tpo
Tpo+NIC
Tpo+AGK2
Total cell fold expansion
Day
C
Percentage of viable cells
Tpo
Tpo+NIC
Tpo+cambinol
Day
G
Percentage of viable cells
Tpo
Tpo+NIC
Series4
Tpo+AGK2
Day
D
Tpo
Tpo+NIC
Tpo+cambinol
Percentage of apoptotic Mks
Day
H
Tpo
Tpo+NIC
Tpo+AGK2
Percentage of apoptotic Mks
Day

Type of file: figure
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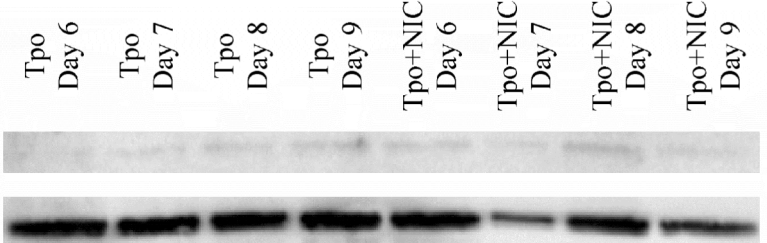
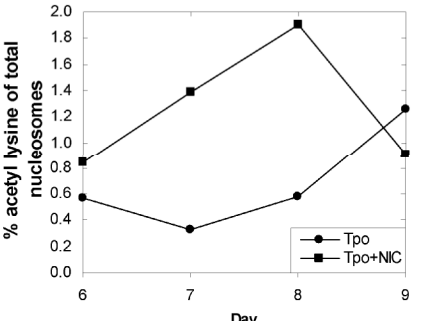

Tpo Day 6
Tpo Day 7
Tpo Day 8
Tpo Day 9
Tpo+NIC Day 6
Tpo+NIC Day 7
Tpo+NIC Day 8
Tpo+NIC Day 9
Acetylated Lysine
Nucleosome


% acetyl lysine of total nucleosomes
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
6
7
8
9
Day
Tpo
Tpo+NIC