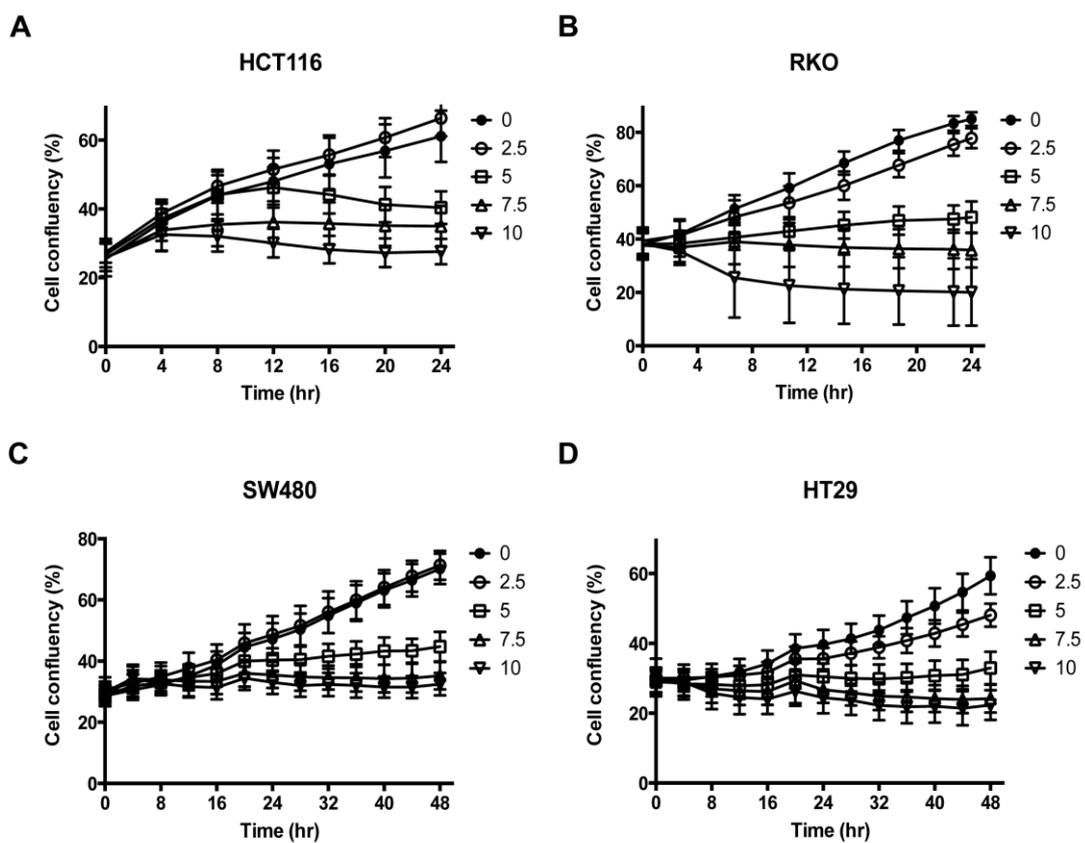


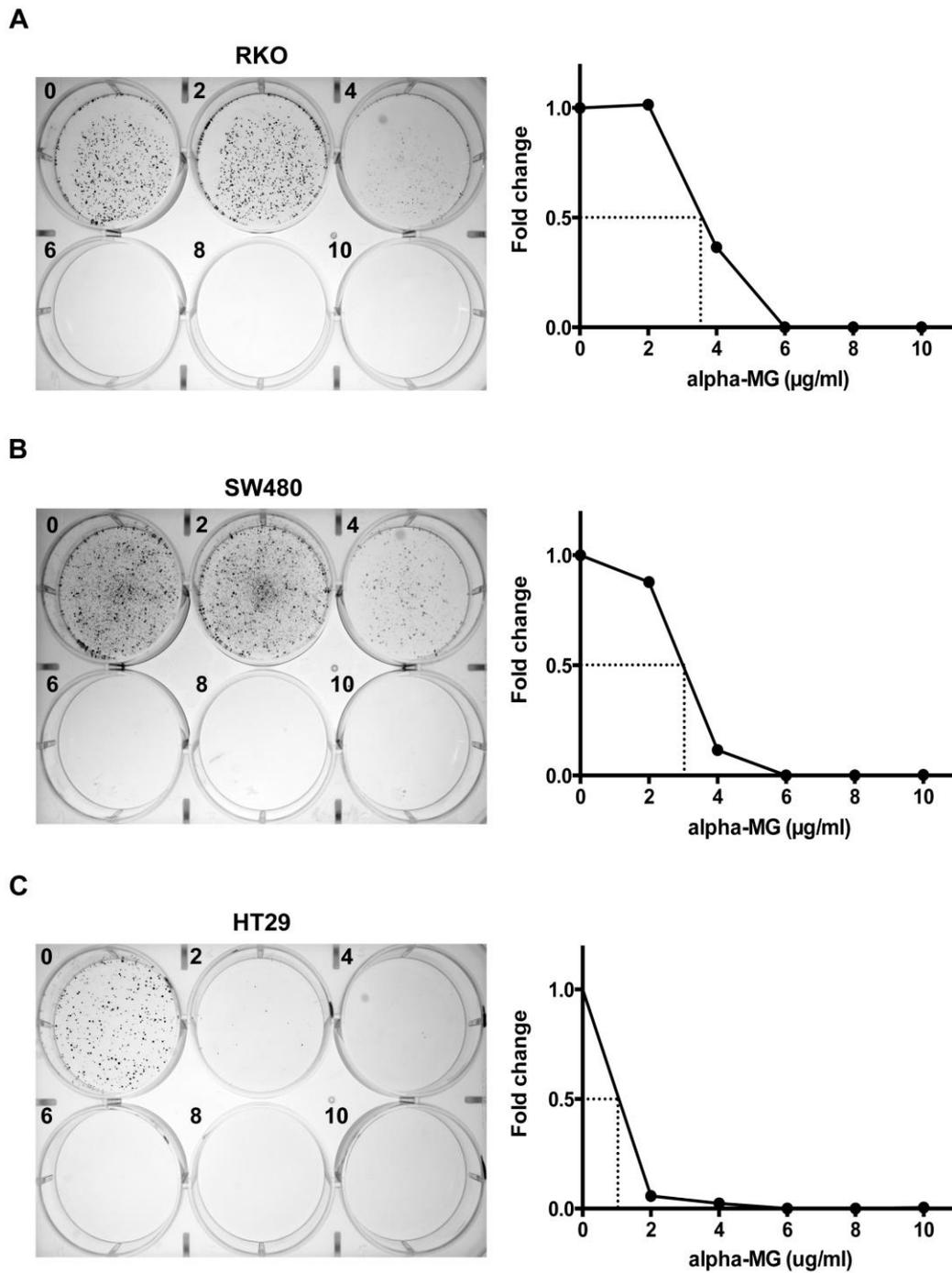
## Supplementary Information

Figure. S1



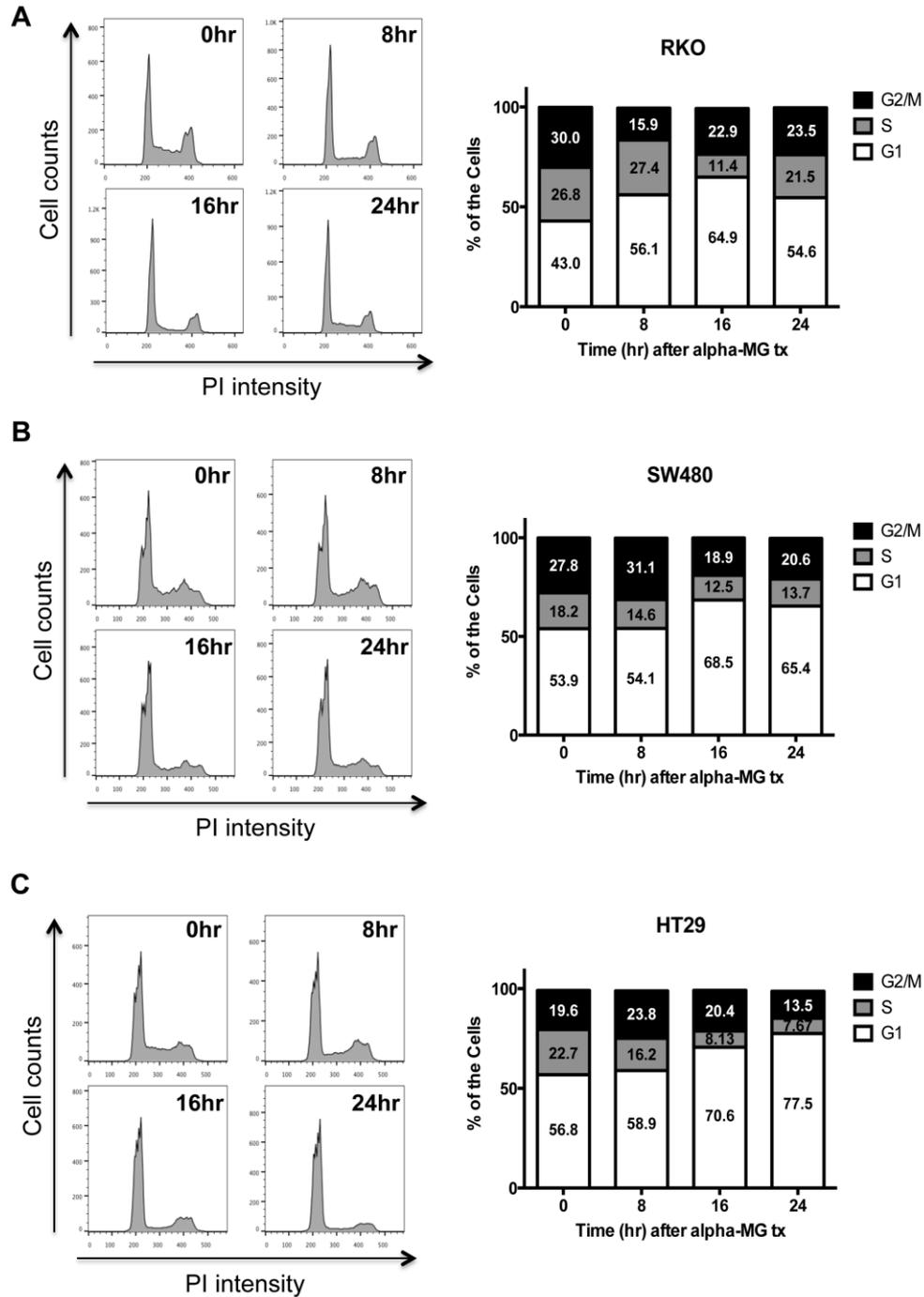
**Figure. S1** Cell growth rate of (A) HCT116, (B) RKO, (C) SW480 and (D) HT29 was determined by IncuCyte™ Zoom live cell imaging system after indicative dose of  $\alpha$ -MG treatment ( $\mu\text{g/ml}$ ).

Figure. S2



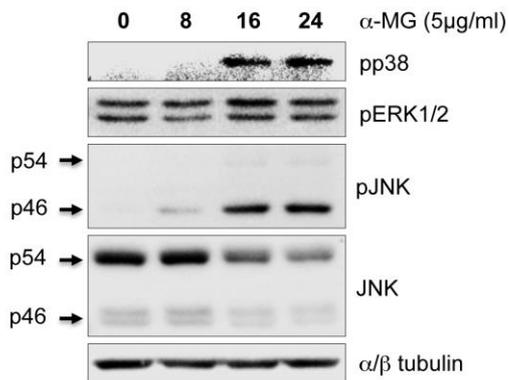
**Figure. S2** Clonogenic assay of (A) RKO, (B) SW480 and (C) HT29 cells after indicative dose of  $\alpha$ -MG ( $\mu\text{g/ml}$ ) was determined one week after treatment (left panel). The quantification of number of colony was presented as a graph (right panel).

Figure. S3



**Figure. S3** Flow cytometry analysis of (A) RKO, (B) SW480 and (C) HT29 cells treated with 5 $\mu$ g/mL of  $\alpha$ -MG at the indicated times was shown (left panel). Cell cycle distribution was calculated as the percentage of cells in G1, S and G2/M phase and was graphically presented as a bar graph (right panel).

**Figure. S4**



**Figure. S4** Total cell lysates of HCT116WT cells after 5μg/ml of α-MG treatment was harvested at the indicated time. Protein expressions of phospho-p38 (pp38), phospho-ERK (pERK), and phospho-JNK (pJNK) MAPK and α/β-tubulin (control) were determined by immunoblotting analysis.