

Supplementary Materials for

IGF-1R inhibition induces MEK phosphorylation to promote survival in colon carcinomas

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This PDF file includes:

Figures. S1 to S4

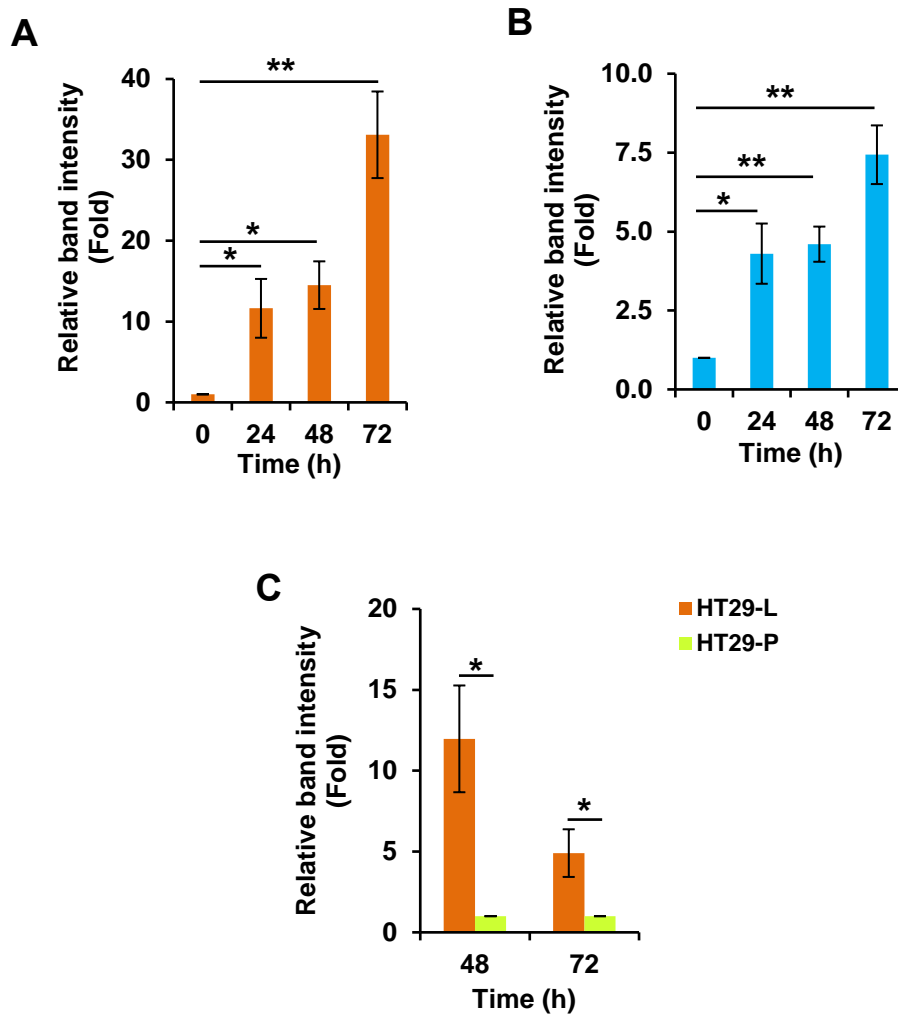


Figure S1. Densitometric quantification of the Western blot results in Fig. 2A. (A and B) The levels of phospho-p70S6K1 (A) and phospho-MDM-2 (B) in BMS-754807-treated HT29-P cells were quantified. The band intensity of 0 h treatment is designated as 1. (C) The levels of cleaved caspase 3 in BMS-754807 treated HT29-L and HT29-P cells were quantified. The band intensity of 48 and 72 h treatment in HT29-P cells is designated as 1. Data from three independent experiments were analyzed by one-sample *t*-test (mean \pm SD; *, $P < 0.05$; **, $P < 0.01$).

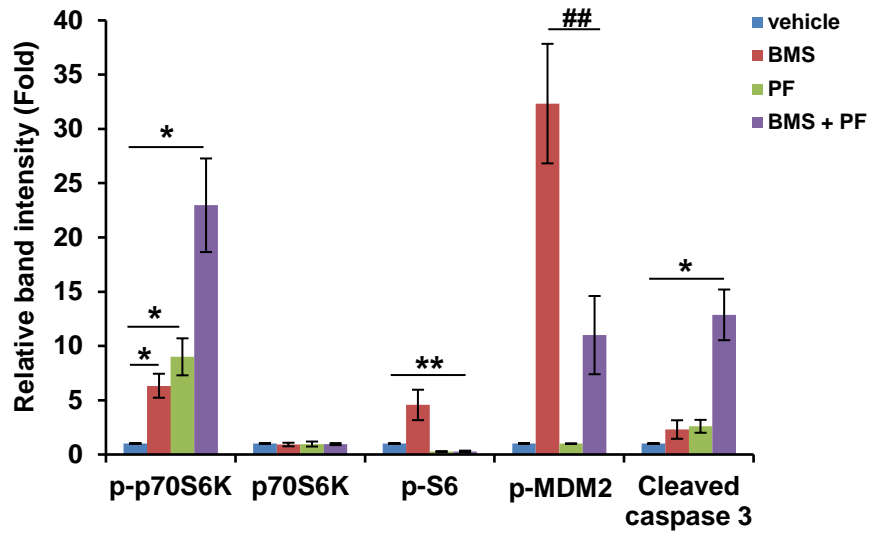


Figure. S2. Densitometric quantification of the Western blot results of phospho-p70S6K1, p70S6K1, phospho-S6, phospho-MDM2, and cleaved caspase 3 in Fig. 2B. The band intensity of 0 h treatment is designated as 1. Data from three independent experiments were analyzed by one-sample *t*-test (mean \pm SD; *, $P < 0.05$; **, $P < 0.01$) or two-sample student's *t*-test (mean \pm SD; ##, $P < 0.01$).

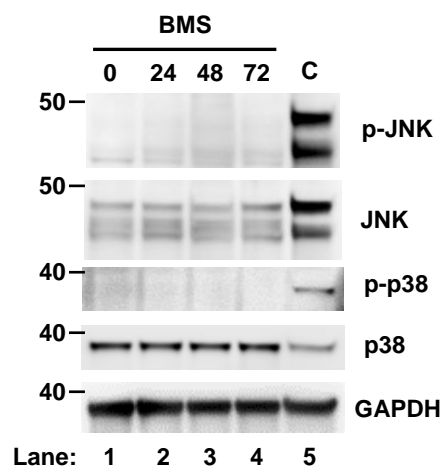


Figure. S3. BMS-754807 does not induce phosphorylation of JNK and p38 in HCT116 cells. HCT116 cells were treated with BMS-754807 (240 nM) for 0, 24, 48, 72 h (lane 1 to 4). The A549 cells treated with Platycodin D (10 μ M) for 24 h to induce phosphorylation of JNK and p38 as a positive control (C, lane 5).¹ The antibodies against to phospho-JNK (4668), JNK (9252), phospho-p38 (9215) and p38 (9212) were purchased from Cell signaling.

1. Zhao, R., Chen, R, Jiang, Z., Zhao, F., Xi et al. Platycodin-D Induced Autophagy in Non-Small Cell Lung Cancer Cells via PI3K/Akt/mTOR and MAPK Signaling Pathways. *J. Cancer* **6**, 623–631 (2015).

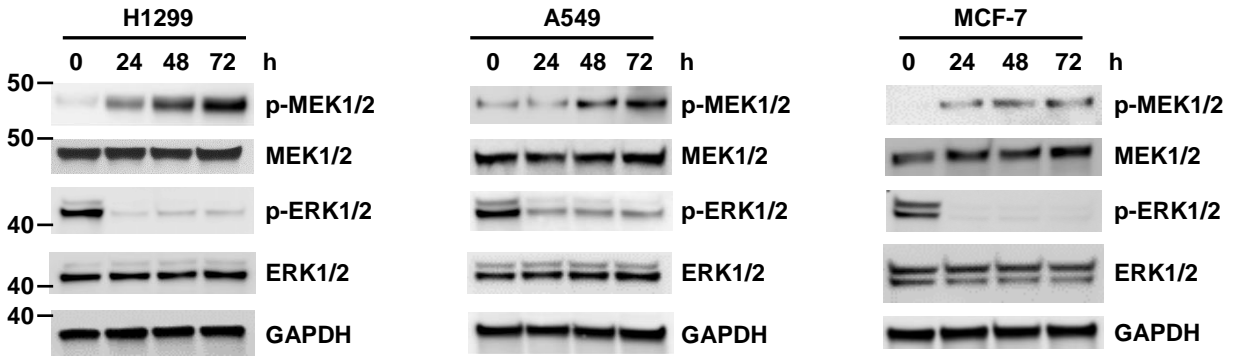


Figure. S4. U0126 increased MEK phosphorylation in H1299, A549, and MCF-7 cells. Cells were treated with U0126 (5 μ M) for 0, 24, 48, 72 h. The antibodies against to phospho-MEK1/2 (9154), MEK1/2 (8727), phospho-ERK1/2 (4370) and ERK1/2 (4695) were purchased from Cell signaling.