

Supplemental Material to:

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**A novel small-molecule compound diaporine A
inhibits non-small cell lung cancer growth
by regulating miR-99a/mTOR signaling**

Cancer Biology & Therapy 2014; 15(10)

<http://dx.doi.org/10.4161/cbt.29925>

<http://www.landesbioscience.com/journals/cbt/article/29925/>

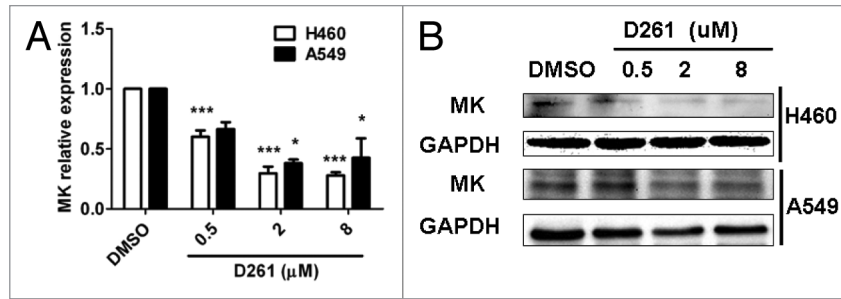


Figure S1. D261 inhibits MK production in vitro. NCI-H460 or A549 cells were treated with various concentrations of D261. **(A)** MK RNA levels (D261 treated for 24 h) were detected by qRT-PCR. Data are shown as mean \pm SEM ($n = 3$) of one representative experiment. Similar results were obtained in at least three independent experiments. * $P < 0.05$, *** $P < 0.001$ compared to DMSO control. **(B)** MK protein levels (D261 treated for 48 h) were detected by western blot.

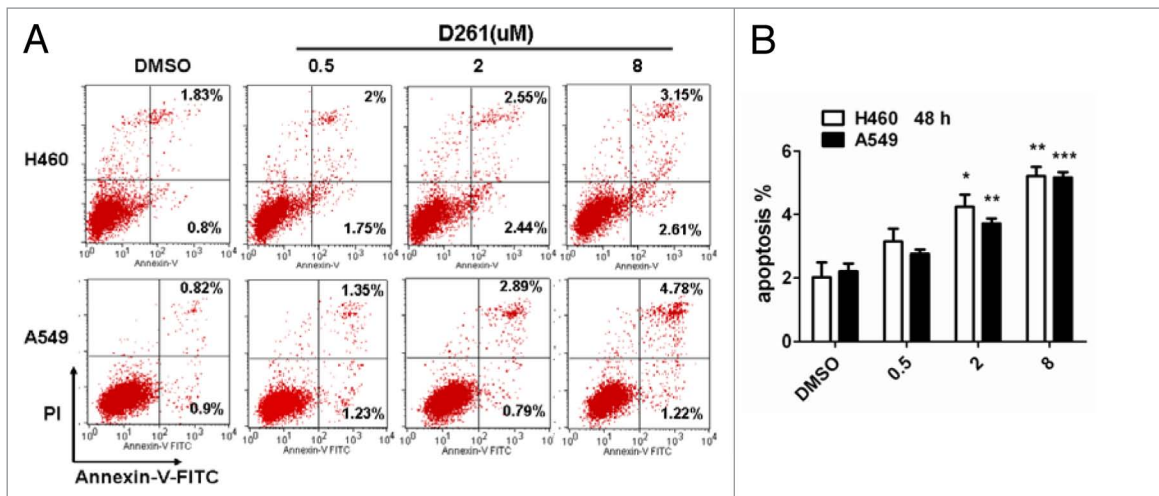


Figure S2. Effects of D261 on cell apoptosis. **(A)** NCI-H460 or A549 cells were treated with various concentrations of D261 for 48 h, cell apoptosis was determined by Annexin V-FITC/PI staining. **(B)** Data are shown as mean \pm SEM of three independent experiments. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$ compared to each DMSO control.

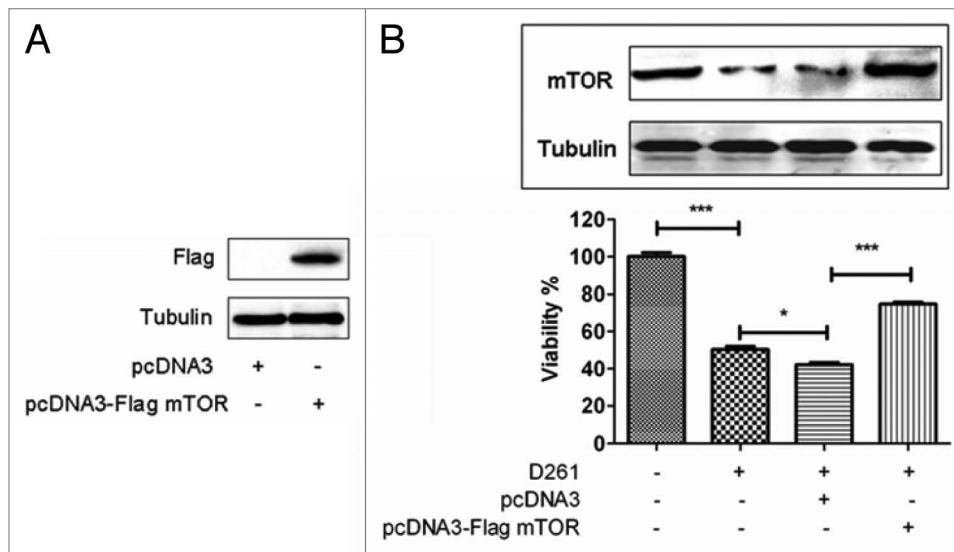


Figure S3. Overexpression of activated mTOR rescued D261-induced inhibition of cell growth. **(A)** A549 cells were transfected with pcDNA3-Flag mTOR or vehicle plasmid pcDNA3 for 72 h. Expression of Flag was detected by western blot. Tubulin was performed as a loading control. **(B)** A549 cells were transfected with pcDNA3-Flag mTOR or vehicle plasmid pcDNA3 24 h before treated with D261 (4 μM) for another 48 h. Expression of mTOR was detected by western blot. Cell viability was assessed using CCK-8 assay. The bars indicate mean \pm SEM ($n = 5$). * $P < 0.05$, *** $P < 0.001$.