Figure S1. Expression analysis of EMT-associated markers in non-small cell lung cancer cell lines (NCI-H358, A549 and NCI-H1703) by qPCR. mRNA expression levels of five EMT-associated markers in NCI-H358, A549 and NCI-H1703 cells. Data are presented as the mean ± SD (n=3). The non-parametric Kruskal-Wallis test revealed that mRNA expression levels of the five EMT markers were significantly different among NCI-H358, A549 and NCI-H1703 cells ($P<0.05$). However, no significantly different mRNA expression levels were observed in the pairwise comparisons between the cells ($P>0.0167$). ns, not significant. qPCR, quantitative PCR; EMT, epithelial-mesenchymal transition; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; ZEB1, zinc finger E-box-binding homeobox 1; HDM2, human double minute 2 protein.

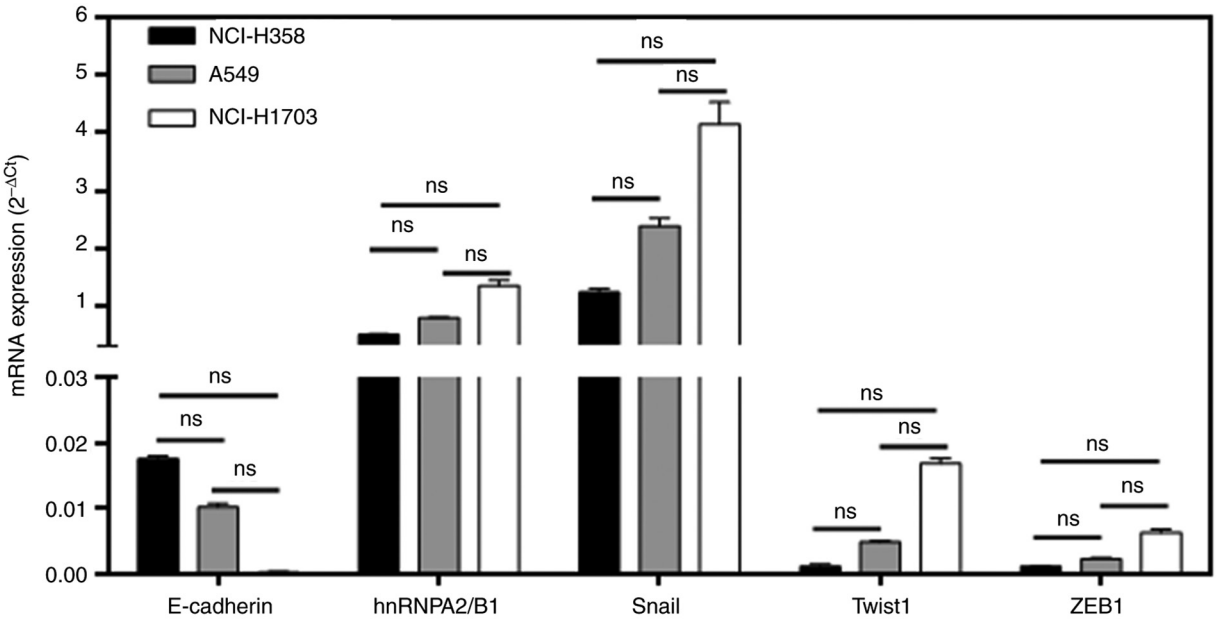

Figure S2. hnRNPA2/B1 knockdown does not induce apoptosis in A549 cells. (A) Apoptosis assays of siCon- or siA2B1-transfected A549 cells. Transfected cells were analyzed by Annexin V/PI staining. (B) Statistical analysis of A. ns, not significant. siCon, control small interfering RNA; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; siA2B1, small interfering RNA targeting hnRNPA2B1; PI, propidium iodide.

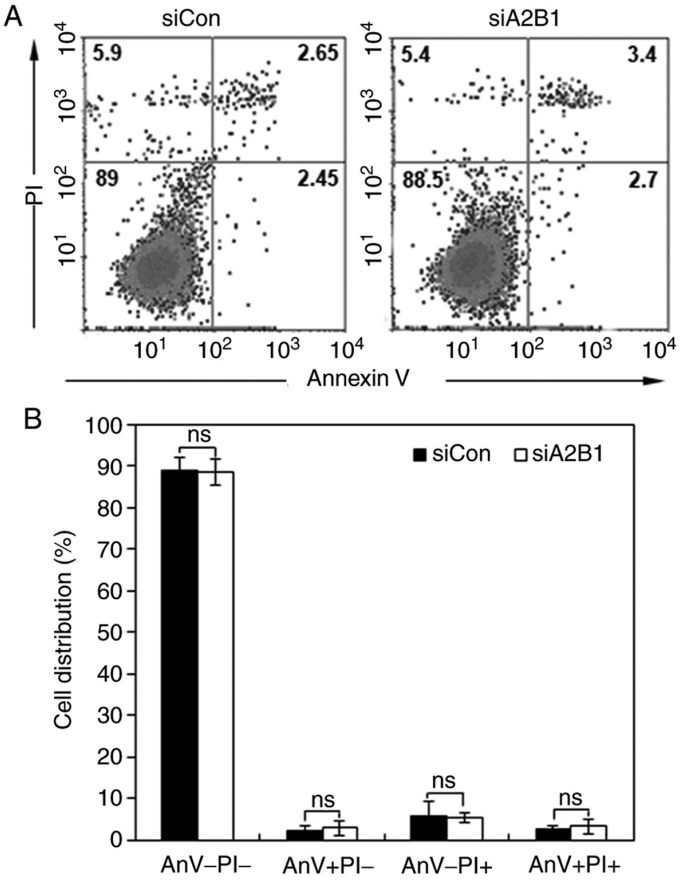

Figure S3. hnRNPA2/B1 knockdown decreases the protein expression levels of vimentin and increases the levels of E-cadherin. siCon- or siA2B1-transfected A549 cells were analyzed by western blotting with the indicated antibodies. siCon, control small interfering RNA; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; siA2B1, small interfering RNA targeting hnRNPA2B1.

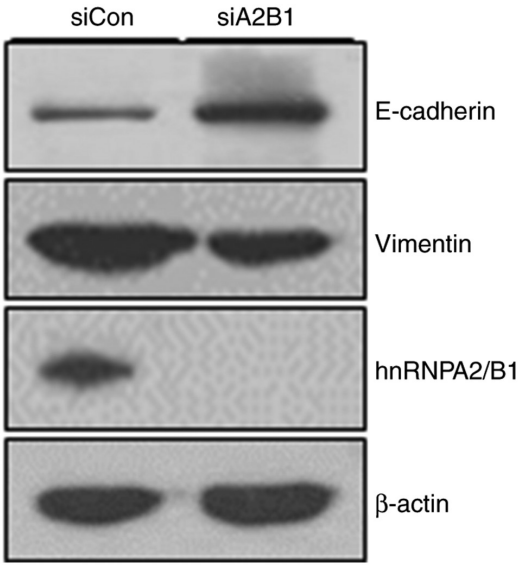

Figure S4. Knockdown of hnRNPA2/B1 in A549 cells with siRNAs. Cells were transfected with siCon or siA2B1 #1, #2 and #3. Knockdown efficiency was determined by western blot analysis. siCon, control small interfering RNA; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; siA2B1, small interfering RNA targeting hnRNPA2B1.

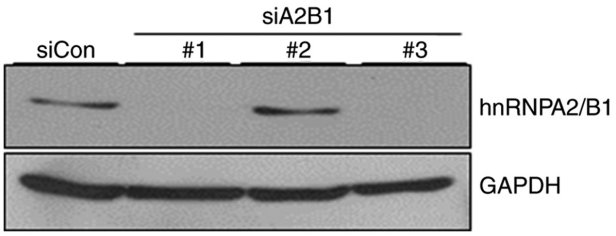

Figure S5. hnRNPA2/B1 promotes the ERK and HDM2 pathway in NCI-H460 cells. The protein expression levels of ERK1, p-ERK1/2, HDM2 and p-HDM2 were determined in siCon- or siA2B1-transfected NCI-H460 cells by western blot analysis. The signal intensities of the blots were analyzed quantitatively, and GAPDH was used as the loading control. siCon, control small interfering RNA; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; siA2B1, small interfering RNA targeting hnRNPA2B1; p-, phosphorylated; HDM2, double minute 2 protein.

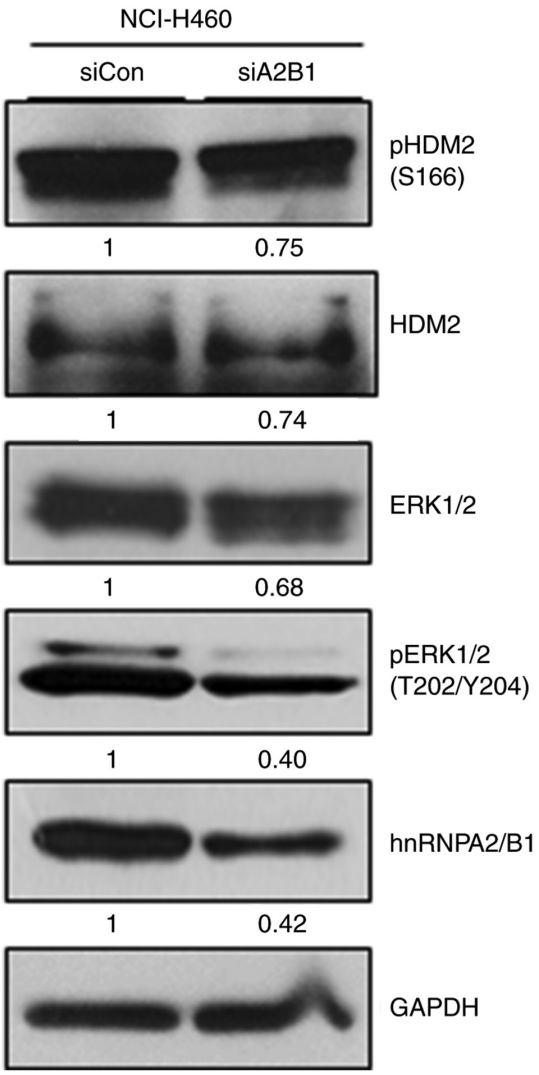

Figure S6. hnRNPA2/B1 expression does not affect the mRNA levels of HDM2. A549 cells were transfected with siCon or siA2B1. Relative mRNA expression levels of HDM2 were determined by quantitative PCR. *P<0.05 vs. siCon; ns, not significant. siCon, control small interfering RNA; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; siA2B1, small interfering RNA targeting hnRNPA2B1; HDM2, human double minute 2 protein.

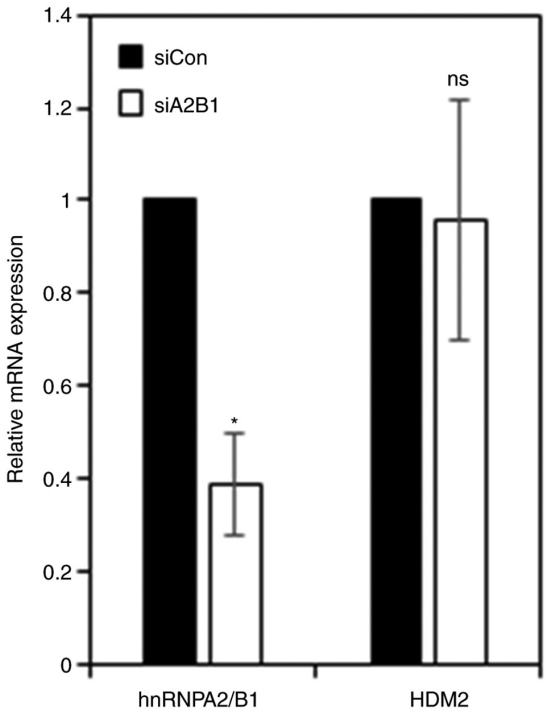

Table SI. Primer sequences used for quantitative PCR.

Gene	Sequences (5'-3')	Size, bp
E-cadherin	F: GAGTGACTTGTTCTGAGTAAGTGT R: TCATAGTTCCGCTCTGTCTTTG	123
Snail	F: GAGCCCAGGCAGCTATTT R: AGTGACAGCCATTACTCACAG	102
ZEB1	F: CTCACATTCCTCACTGCCTAAC R: GAGAACATAGCTGAGCTCCATAAA	106
Twist	F: TCAAGAGGTCGTGCCAATC R: CGGCCAGTTTGATCCCAGTAT	130
hnRNPA2/B1	F: GACTGTGTGGTAATGAGGGATCCT R: GCTCAACTACTCTCCCATCAATTGA	133
HDM2	F: TGTAAGTGAACATTCAGGTG R: TTCCAATAGTCAGCTAAGGA	230
GAPDH	F: ACAGCGACACCCACTCCTCC R: GAGGTCCACCACCCTGTTGC	122

ZEB1, zinc finger E-box-binding homeobox 1; hnRNPA2/B1, heterogeneous nuclear ribonucleoprotein A2/B1; HDM2, human double minute 2 protein; F, forward; R, reverse.