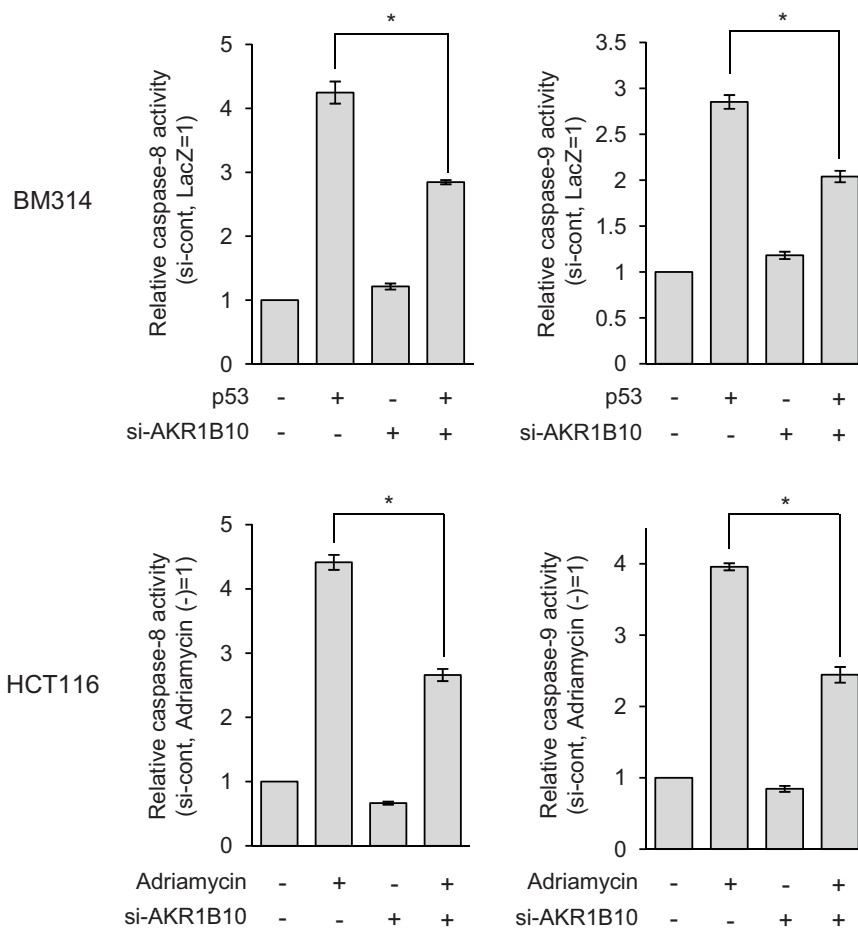
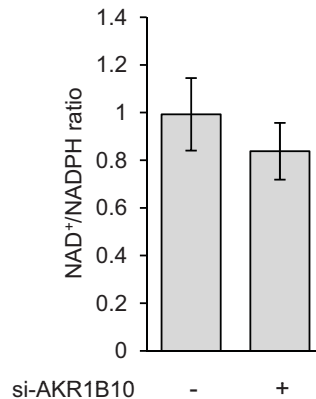


**A****B****Supplementary Figure 1**

The effect of AKR1B10 knockdown on the activity of caspases and the amount of cellular NADPH.

(A) BM314 and HCT116 cells were transfected with siRNAs targeting AKR1B10 (si-AKR1B10 +) or the negative control (si-AKR1B10 -). At 4 h after transfection, BM314 cells were infected with adenoviral vectors expressing p53 (p53 +) or LacZ (p53 -) as a control at an MOI of 200, and HCT116 cells were treated with or without adriamycin (0.5 µg/ml). At 24 h after viral infection or drug treatment, siRNAs were again transfected into these cells. At 24 h after the second transfection, caspase-8 and 9 activity was measured using the Caspase-8 and 9 Colorimetric Assay Kit (BioVision).

(B) BM314 cells were transfected with siRNAs targeting AKR1B10 (si-AKR1B10 +) or the negative control (si-AKR1B10 -). 48h after transfection, The amount of NAD<sup>+</sup> and NADPH was measured using NADP/NADPH Quantitation Colorimetric Kit (BioVision) according to manufacturer's protocol.

In (A) and (B), the averages of three independent experiments are indicated and error bars indicate the S.E. \* indicates a p value < 0.05 by *t*-test.