

Figure S1. Clonogenic survival curves of eight human breast cancer cell lines against X-ray and proton irradiation. Data are presented as the mean \pm SEM of three independent experiments. Curves were fitted with linear quadratic model. The differences are evaluated by a two-way ANOVA; * $p < 0.05$; *** $p < 0.001$. Dashed lines indicate SF = 0.1.

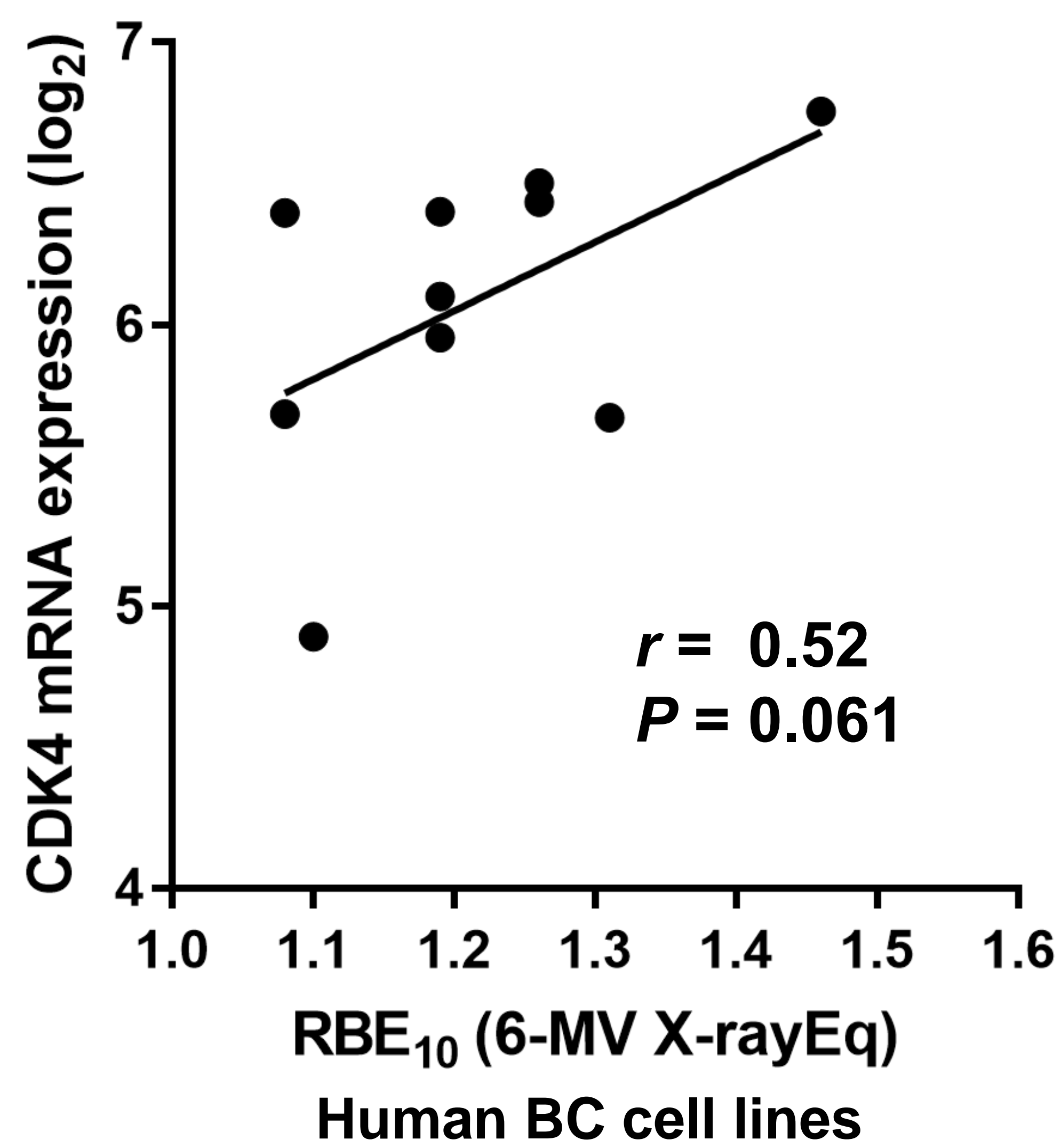
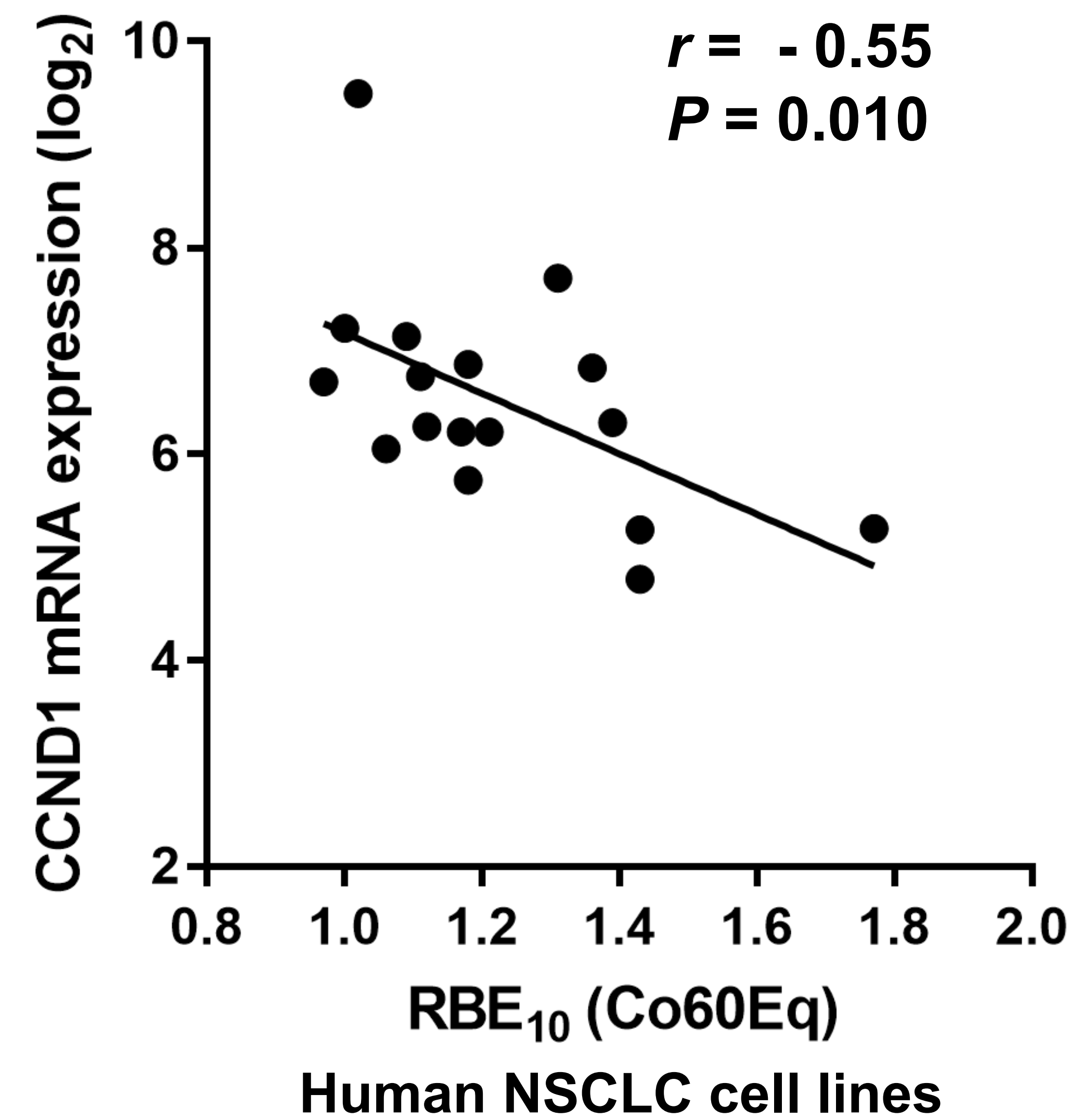
A**B**

Figure S2. Scatter plot for correlation between RBE10 values and CDK4 mRNA expression in human BC cell lines (**A**) and cyclin D1 mRNA expression in human NSCLC cell lines (**B**). Log2 transformed RMA values were obtained from CCLE database. Pearson correlation coefficient (r) between gene expression and proton RBE10 across all samples were presented.