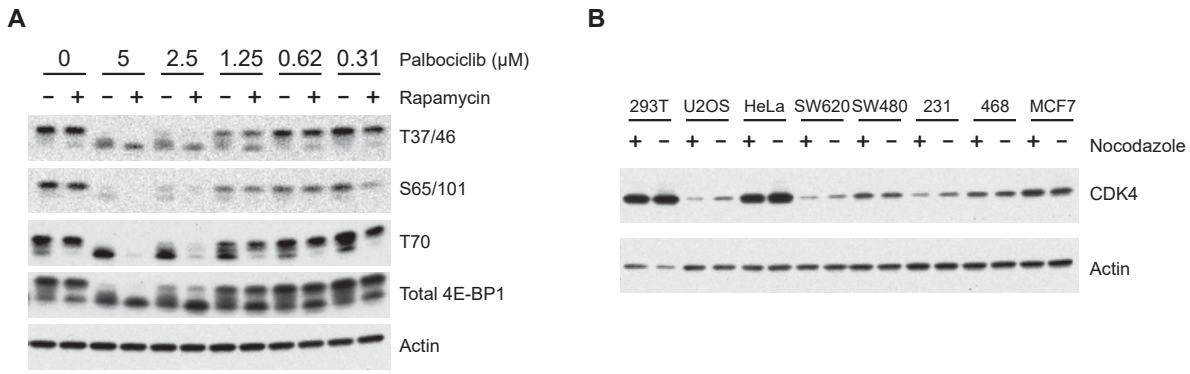

Figure S1. Palbociclib-sensitive 4E-BP1 phosphorylation correlates with CDK4 expression levels across cell lines. (A) Nocodazole arrested 293T cells were treated with rapamycin (100 nM) and/or palbociclib (5 μM – 313 nM) in fresh media containing insulin (150 nM) for 2 h. (B) Western blot of CDK4 from cell lines growing asynchronously, or treated +/- 500 nM nocodazole for 20 h to induce a prometaphase arrest.

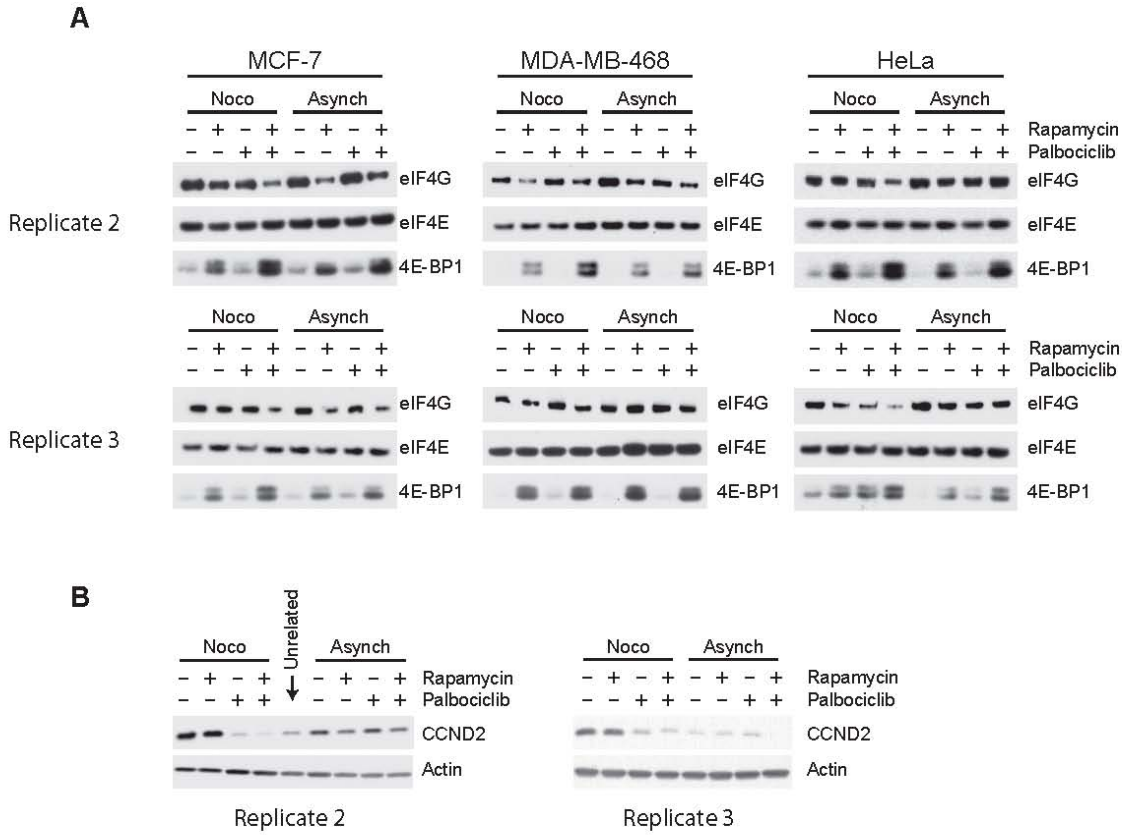

Figure S2. Replicate experiments from Main Text Figure 4. (A) Experiments were performed as described in Figure 4A. (B) Experiments were performed as described in Figure 4C.

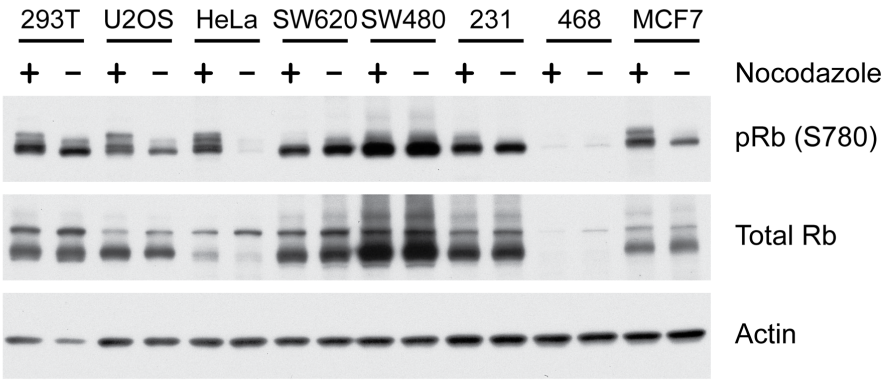

Figure S3. Cells Arrested in Mitosis Exhibit Increased CDK4 Activity. Western blot of phosphorylated pRb from cell lines growing asynchronously, or treated +/- 500 nM nocodazole for 20 h to induce a prometaphase arrest. Note that an increase in Rb phosphorylation at S780 is not observed in the colorectal cancer cell lines SW480 and SW620.