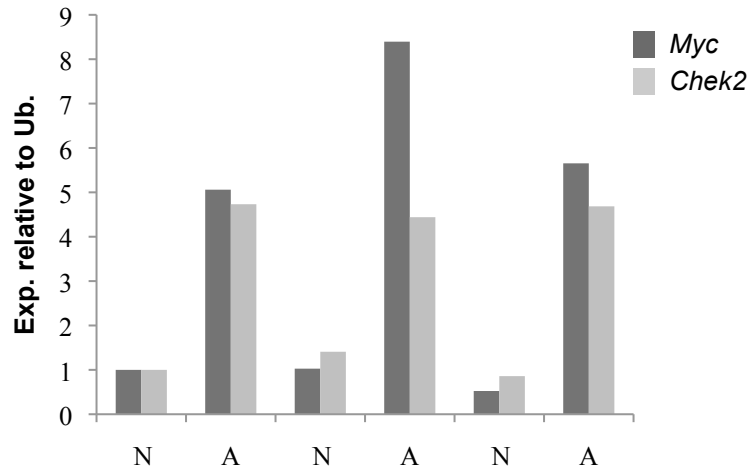


Supplemental Figure 1. Normal tissue or small intestine adenomas from *Apc^{Min}* mice were harvested at around 120 days of age. Tumor material was snap frozen and analyzed by qRT-PCR analysis for expression of *Chk2* and *c-Myc* transcript levels.

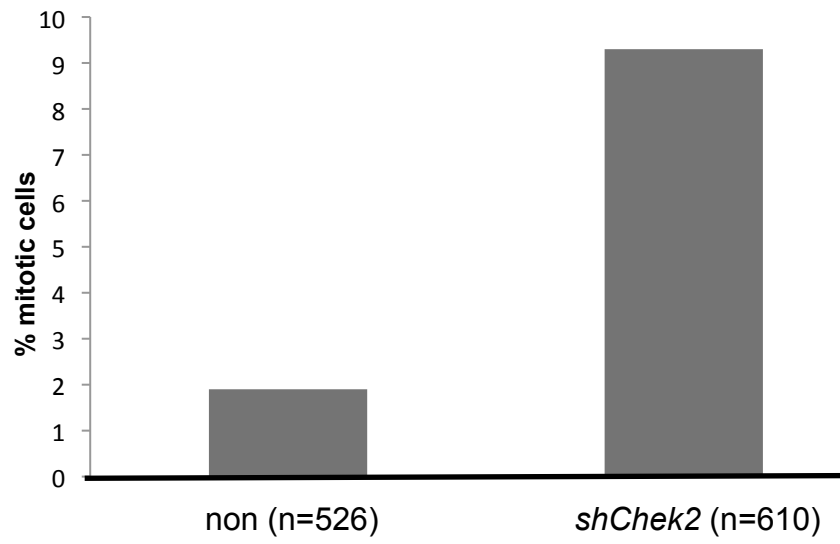
Supplemental Figure 2. NIH-3T3 fibroblasts infected with MSCV-Myc-IRES-GFP retroviruses and shRNA against *Chk2* or a non-target shRNA were stained with antibodies against tubulin and was scored for the amount of cells situated in mitosis. *Chk2* deficient cells have a higher percentage of cells in mitosis (9% vs. 2% for control infected cells).

Supplemental Figure 3. (A) Mouse lymphoma cell line from the λ -*Myc* transgenic mouse was infected with shRNA against *Chk2* or control vector. These cells were then stained with antibodies against tubulin and counter stained with PI. Representative picture of the polyploid (arrow) cells observed in the *Chk2* deficient cells. (B) Growth curve of the cells described in (A). *Chk2* deficiency severely impacts the division rate of the lymphoma cells. (C) The *Chk2* deficient lymphoma cells were also transplanted in recipient CL57/B6 animals and monitored for palpable lymphoma. Disease progression was significantly delayed in mice transplanted with cell lacking *Chk2* (Median survival 29 days vs. 17 days of control cells. $P = 0.0295$). When sick, tumors were snap frozen and analyzed with western blot for expression of *Chk2*. Tick on survival curve represents a false positive sample harvested.

Supplemental Figure 1

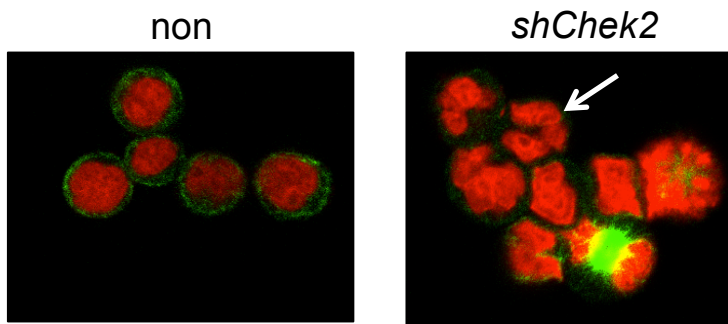


Supplemental Figure 2

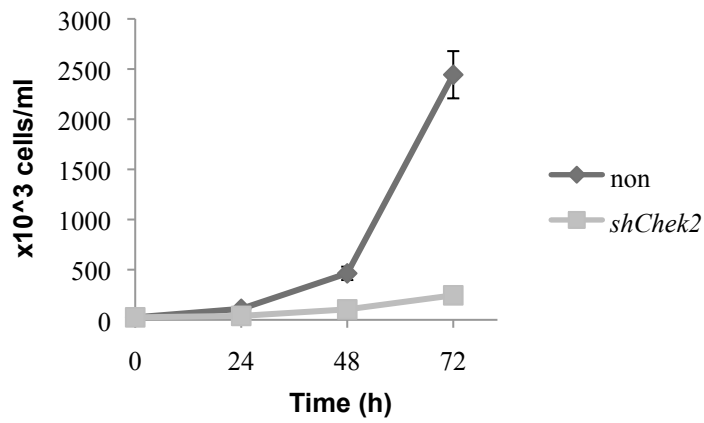


Supplemental figure 3

A



B



C

