Figure S1: Pancreatic cancer cell line validation
PCR of DNA isolated from KPC – 8041 and KC; Ink4a^-/- - 35 cell lines, confirming transgene expression
Figure S2: Successful recombination of the Bmi1 locus in the murine pancreas.
PCR of pancreatic genomic DNA isolated from isolated from \textit{Pdx1-Cre; Bmi1}^{+/+}, \textit{Pdx1-Cre; Bmi1}^{fl/+}, and \textit{Pdx1-Cre; Bmi1}^{fl/fl} mice.
Figure S3: Bmi1 is expressed specifically in PanINs in KPC mice. 
Immunohistochemistry for Bmi1 expression in Pdx1-Cre; LSLKrasG12D; p53R172H pancreata.
**Figure S4: Bmi1 null pancreata do not develop PanINs.**

IHC staining for Ki67 in (A) KC, (B) KC; Bmi1\(^{f/+}\), and (C) KC; Bmi1\(^{f/f}\) pancreata at 12 and 20 weeks. PAS staining in (D) KC, (E) KC; Bmi1\(^{f/+}\), and (F) KC; Bmi1\(^{f/f}\) pancreata at 12 and 20 weeks.
Figure S5: Induction of pancreatitis does not rescue PanIN initiation in Bmi1 null pancreata.

(A) Experimental design. HE staining and pERK1/2 immunostaining for WT, KC, KC; Bmi1<sup>f/+</sup>, and KC; Bmi1<sup>f/f</sup> mice 24 hours (B-E) and 3 weeks (F-I) following pancreatitis. (J) Histopathological analysis for KC, KC; Bmi1<sup>f/+</sup>, and KC; Bmi1<sup>f/f</sup> mice 3 weeks after pancreatitis (2-way ANOVA: **p<0.01, n=3-6).
Figure S6: Bmi1 is expressed in areas of ADM in KC; Bmi1^fl/fl^ mice
IHC staining for Bmi1 in KC; Bmi1^fl/fl^ mice 3 weeks post pancreatitis. Arrows point to areas of Bmi1-positive ductal cells in areas of acinar ductal metaplasia.
Figure S7: Chk2 expression is unchanged upon Bmi1 knock down

(A) Western Blot for Chk2, B-actin, and Bmi1 and (B) RT-PCR analysis for Chk2 in KPC – 8041 cells, in the presence of scrambled siRNA or Bmi1 knock down siRNA. Chromatin immunoprecipitation for H2AK119Ub on the Chk2 promoter in (C) 35 and (D) 8041 cells. RT-PCR confirming Bmi1 knock down in (E) 35 and (F) 8041 cells.
Figure S8: Significant changes are not observed in other ROS detoxification or DNA damage repair enzymes in the absence of Bmi1 expression.

IHC staining for Nrf2 in WT, KC, KC; Bmi1f/+ and KC; Bmi1f/f pancreata at 3 weeks post-pancreatitis (A). RT-qPCR analysis for Nrf2 (B), Keap1 (C), ATM (D), and BRCA1 (E) in KPC – 8041 cells and KC; Ink4a-/- - 35 cells following siRNA and H$_2$O$_2$ treatments.