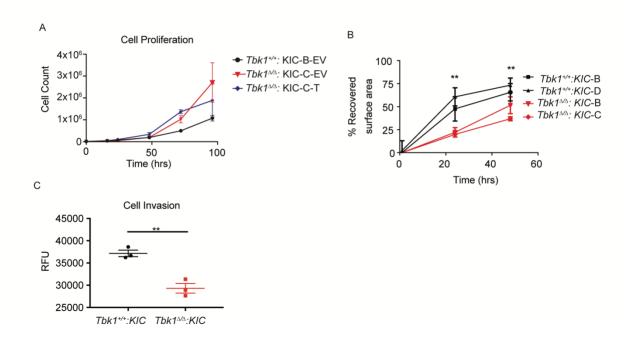
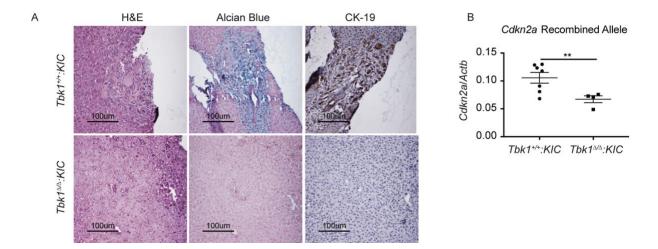
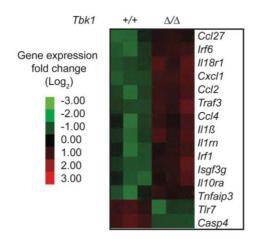


Supplemental Figure 1. Tumors in *Tbk1*^{Δ/Δ}: *KIC* mice display enhanced epithelial differentiation. Representative images of vimentin, alcian blue, and trichrome stained tumors from 8-week-old *Tbk1*^{+/+}: *KIC* and *Tbk1*^{Δ/Δ}: *KIC* mice. Scale bars indicate 100µm for alcian blue images and 500µm for trichrome images; $n \ge 4$ mice/group, 4 images/mouse.

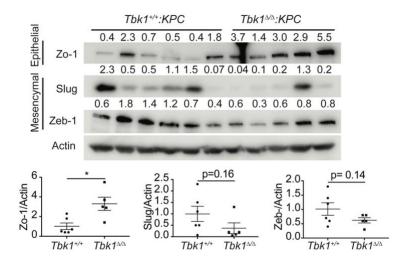




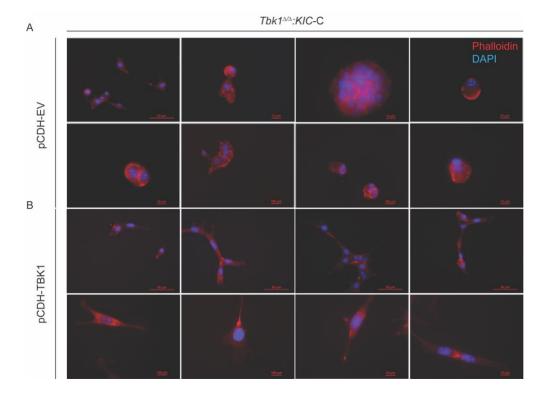
Supplemental Figure 3. *Tbk1*^{Δ/Δ}: *KIC* tumors are less metastatic than *Tbk1*^{+/+}: *KIC* tumors. A) Representative liver histology in mice from 8-week-old *Tbk1*^{+/+}: *KIC* and *Tbk1*^{Δ/Δ}: *KIC* mice, including H&E, alcian blue, and CK19 immunohistochemical staining. Scale bars indicate 100 µm. B) Metastasis to the liver was quantified by qPCR for recombined *Cdkn2a* allele (n = 4-7 mice/group). Results are representative of mean +/- SEM. Unpaired two-tailed *t* test, *p < 0.05, **p < 0.01, ****p < 0.0001.



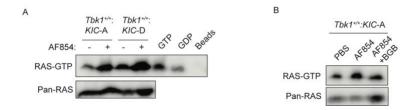
Supplemental Figure 4. $Tbk1^{\Delta/\Delta}$: KIC tumors contain higher pro-inflammatory gene expression than $Tbk1^{+/+}$: KIC tumors. Heatmap representing gene expression fold change (log₂) of inflammatory genes from $Tbk1^{\Delta/\Delta}$: KIC and $Tbk1^{+/+}$: KIC tumors. Color key indicates gene expression fold change; n = 3 tumors/genotype, p < 0.05 for all genes between $Tbk1^{\Delta/\Delta}$: KIC and $Tbk1^{+/+}$: KIC tumors.



Supplemental Figure 5. *Tbk1* promotes mesenchymal protein expression in KPC cell lines. Protein lysates isolated from *Tbk1*+/+: *KPC* and *Tbk1* $^{\triangle/\Delta}$: *KPC* cell lines were immunoblotted for indicated epithelial and mesenchymal markers. Actin was used as a loading control. Signal intensity of each sample was quantified and normalized to the mean *Tbk1*+/+: *KPC* signal. Results are representative of mean +/- SEM. Unpaired two-tailed *t* test, *p < 0.05.



Supplemental Figure 6. TBK1 re-expression drives a mesenchymal morphology in $Tbk1^{\Delta/\Delta}$: KIC cell lines. Representative images of $Tbk1^{\Delta/\Delta}$: KIC-C cells infected with (A) lentiviral empty vector (EV) or (B) full-length TBK1 (T) plated on a mixed layer of collagen and Matrigel. Cells are fixed and nuclei are labeled with DAPI (blue) and F-actin is labeled with phalloidin (red).



Supplemental Figure 7. Axl-activating antibody AF854 stimulates Ras activity. A) Protein lysates from $Tbk1^{+/+}$: KIC-A and $Tbk1^{+/+}$: KIC-D cells treated with PBS or AF854 (6nM) for 30 min were assayed for active Ras and Pan-Ras. GTP and GDP protein loading were used as positive and negative controls, respectively. B) Protein lysates isolated from $Tbk1^{+/+}$: KIC-A cells treated with either PBS, AF854 (6nM), or AF854 (6nM) + BGB324 (BGB, 2 μ M) for 30 min were assayed for active Ras and Pan-Ras.