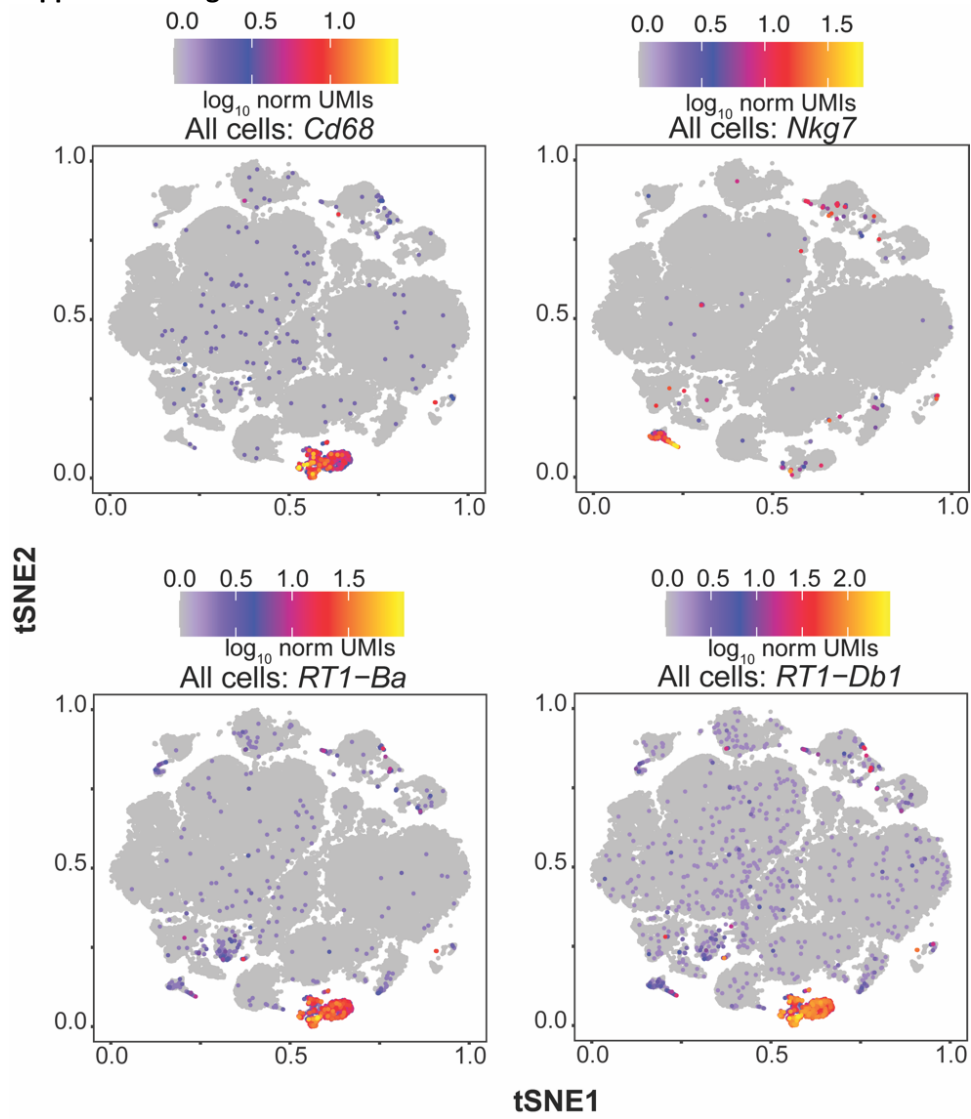
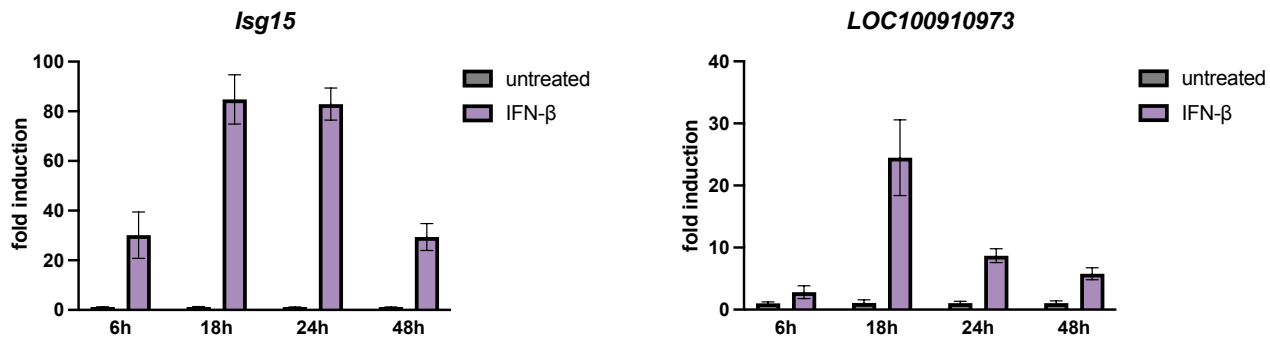


Supplemental Figure 1



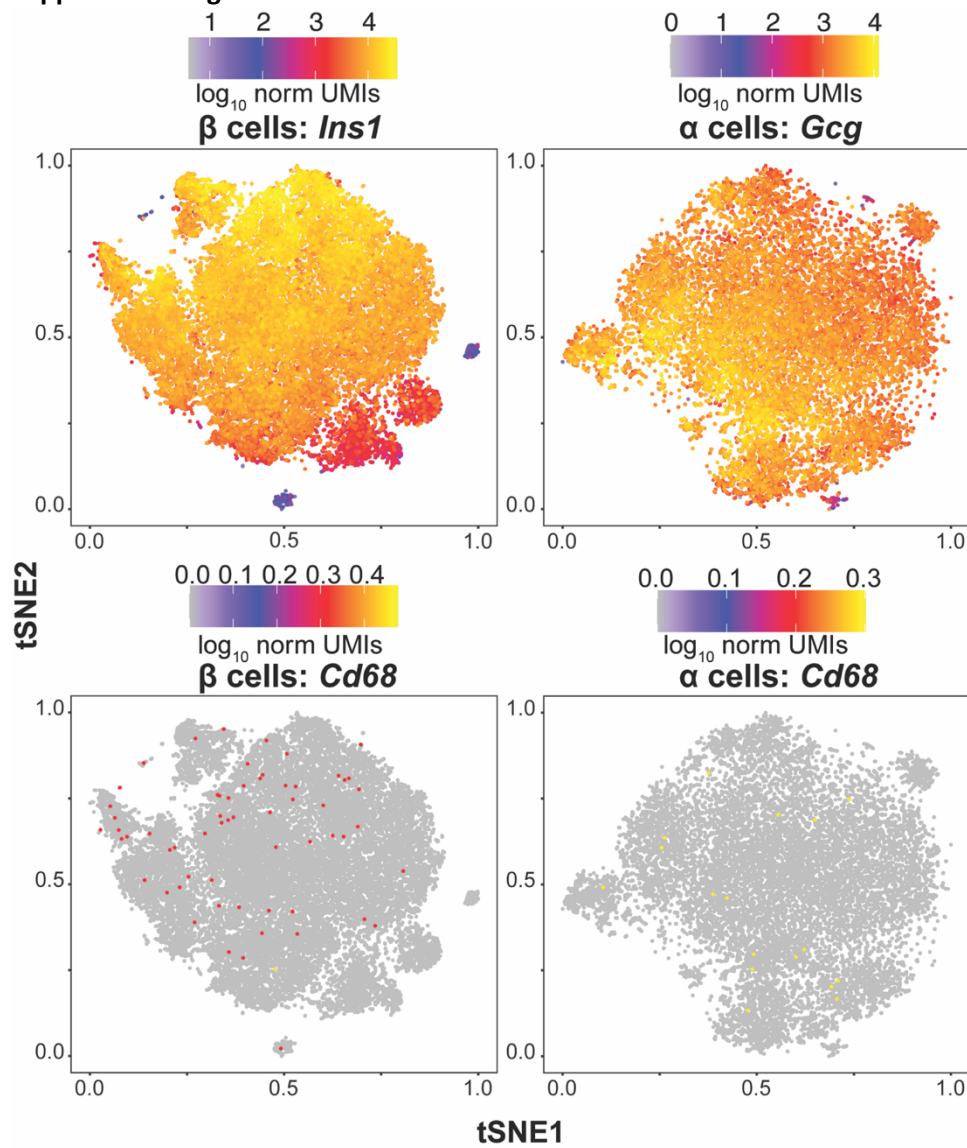
Supplemental Figure 1. Select transcriptional markers assist in identifying cell clusters. Example t-SNE maps show *Cd68* expression in the cluster identified as macrophages and *Nkg7* for the cluster identified as natural killer cells. t-SNE maps for *RT1-Ba* and *RT1-Db1* show that MHC class II transcripts are only found in the *Cd68*⁺ cell cluster.

Supplemental Figure 2



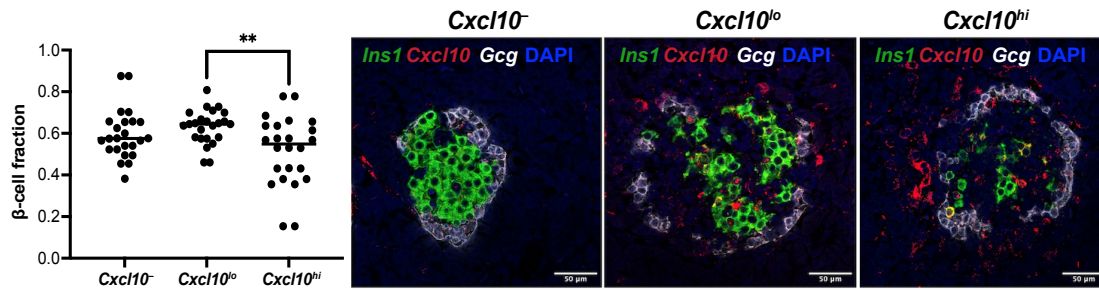
Supplemental Figure 2. *LOC100910973* is induced by IFN- β . Normal rat kidney (NRK) cells (American Type Culture Collection, Cat #CRL-6509) were seeded at 10^6 cells per well in 6-well plates and stimulated with 1000 u/mL recombinant rat IFN- β (PBL Assay Science, Cat# 13400-1) or media control at the indicated times. RNA was isolated from cells using TRIzol (Invitrogen, Cat #15596018) and stored at -80°C . The QuantiTect Reverse Transcription Kit (Qiagen, Cat # 205311) was used for cDNA synthesis. mRNA expression levels of rat *LOC100910973* (sense 5'-CAAGTGGCTCTCAGAAAGTAGA-3', and antisense 5'-GCAGGGCTGAGCTAAAGAA-3') were measured using Applied BiosystemsTM SYBR Green reagent (Thermo Fisher Scientific, Cat# 4309155); expression of rat *Isg15* and *Gusb* (housekeeping gene) was measured using Qiagen QuantiTect primers. Error bars represent the mean value for three independent wells per condition.

Supplemental Figure 3



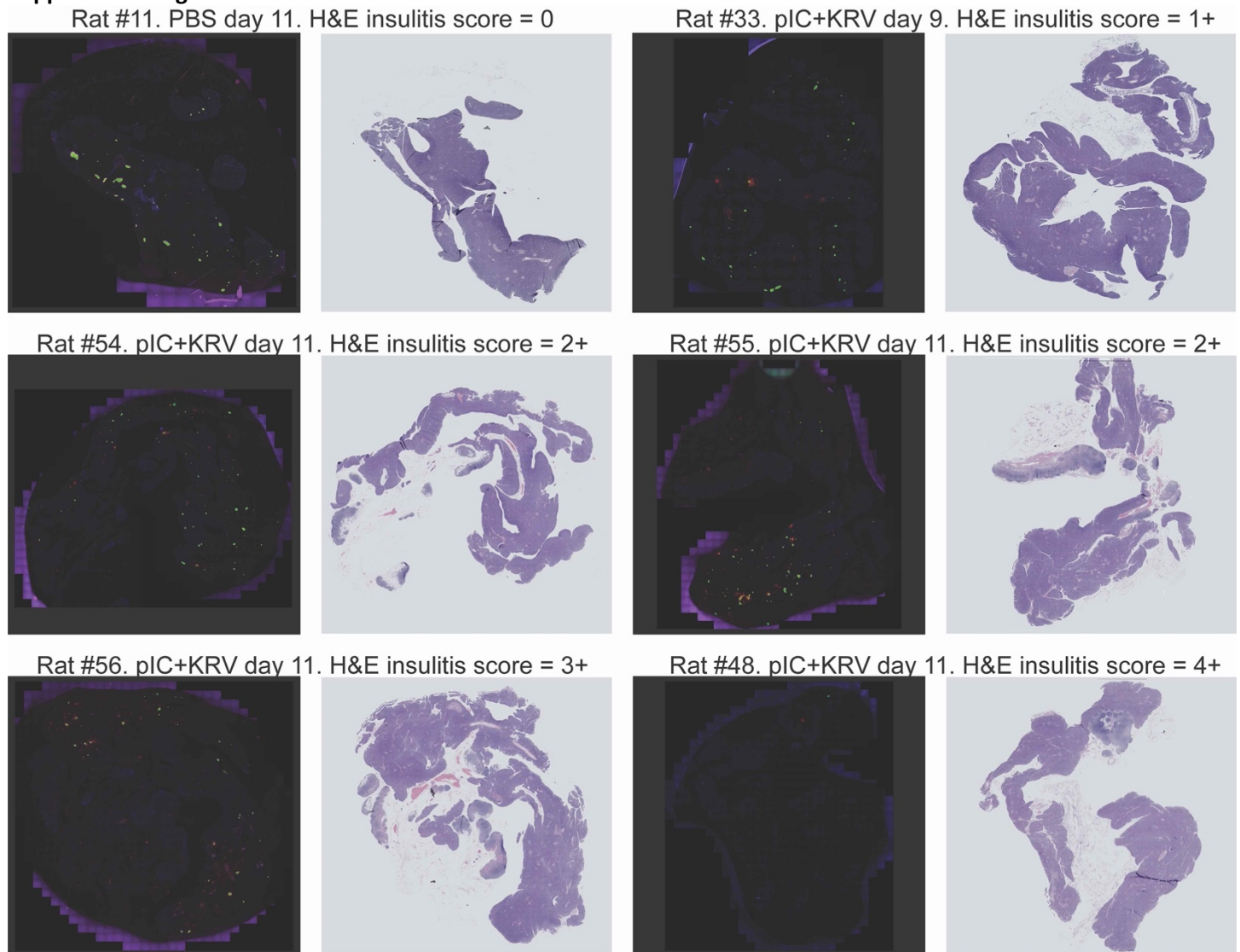
Supplemental Figure 3. Cells identified as β and α cells do not express *Cd68*⁺. t-SNE plots for β and α cell clusters confirm negligible levels of the macrophage marker *Cd68*⁺ in these populations.

Supplemental Figure 4



Supplemental Figure 4. Occasional *Cxcl10*⁺ islets show a selective loss of *Ins1*⁺ cells. α and β cells were defined by *Gcg*⁺ and *Ins1*⁺ staining. Islets were categorized as *Cxcl10*⁻ (no *Cxcl10*⁺), *Cxcl10*^{lo} (1-25% *Cxcl10*⁺), or *Cxcl10*^{hi} ($\geq 25\%$ *Cxcl10*⁺). The fraction of β cells was calculated as β cells/ β cells+ α cells from three *Cxcl10*⁻, three *Cxcl10*^{lo}, and three *Cxcl10*^{hi} islets from each of eight pIC+KRV-treated rats (day 11). CD8⁺ islets were defined by the presence of at least three CD8⁺ cells within the islet perimeter.

Supplemental Figure 5



Supplemental Figure 5. Representative sections from different rats show varying numbers of *Cxcl10*⁺ islets. Scanned sections of rat pancreata from various treatment conditions/times are shown. *Ins1*=green, *Gcg*=purple, *Cxcl10*=red, DAPI=blue. Corresponding insulitis scores from hematoxylin and eosin (H&E) staining are included. The purple border around each image is an outline drawn using a hydrophobic barrier pen (ImmEdge™ Hydrophobic Barrier Pen, Vector Laboratories, Inc., Newark, CA).

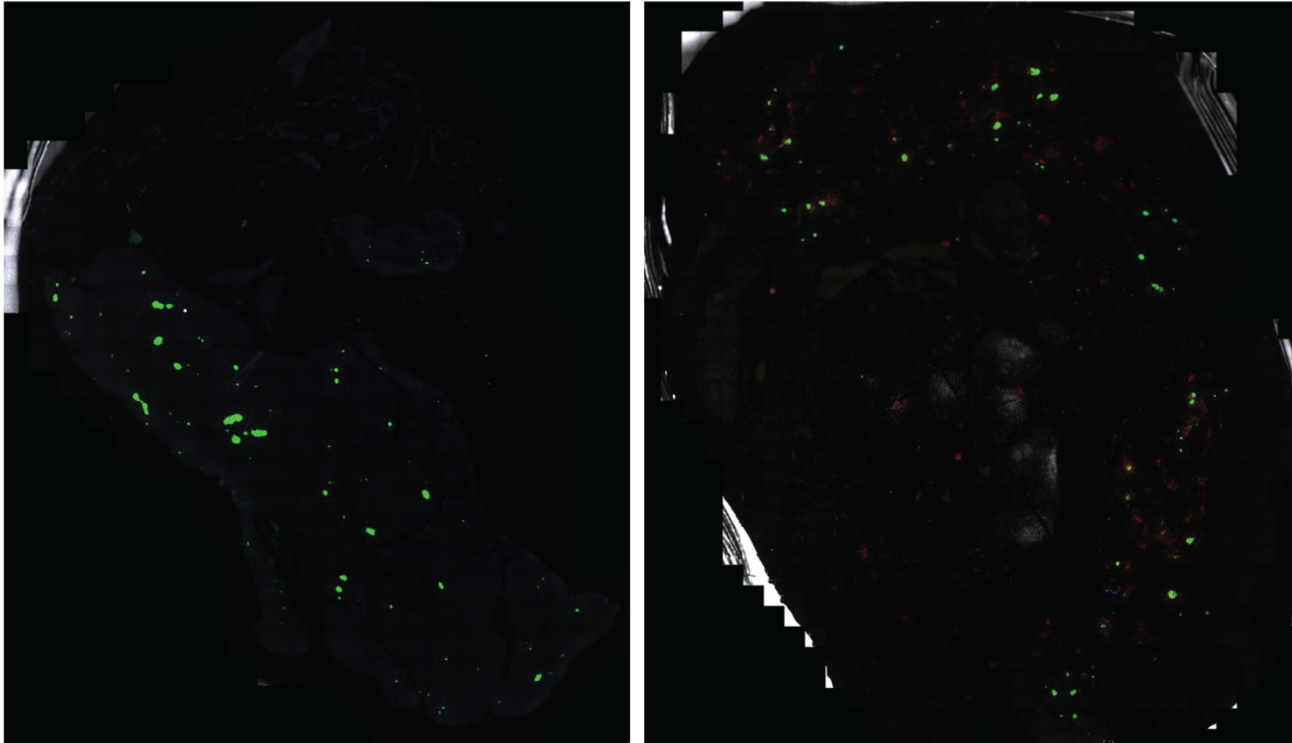
To access individual high-resolution images please go to:

https://www.dropbox.com/sh/ba5eghjzm80g5di/AAA4G_AveV1RnPGVald9j6f9a?dl=0

Supplemental Figure 6

Rat #11. PBS day 11

Rat #56. pIC+KRV day 11



Supplemental Figure 6. CD8⁺ cells are absent in pancreata from PBS control rats. Representative sections from different rats showing the absence of CD8⁺ cells in the endocrine and exocrine pancreas from a control PBS rat and presence of CD8⁺ cells in islets from a pIC+KRV-treated rat. CD8a=white, *Ins1*=green, *Cxcl10*=red, blue=DAPI.

To access individual high-resolution images please go to:

https://www.dropbox.com/sh/shipnt1ab8w8hkp/AADSJ-U39PjnR_4HqHfLUCgva?dl=0