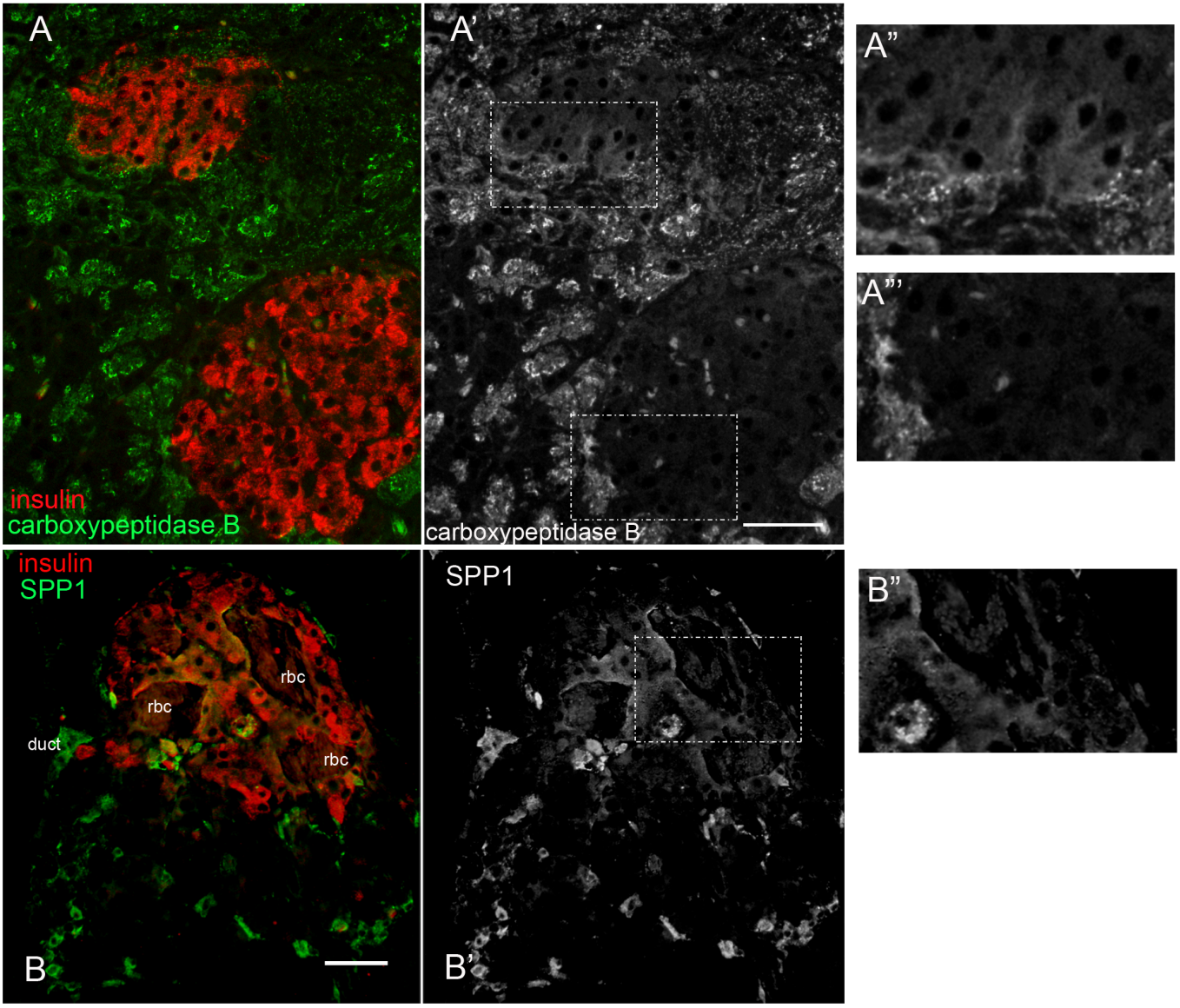

Figure S2 related to Figure 4. Expression of exocrine proteins in islets of PX animals by immunostaining. As shown in **Table S2**, genes usually associated with the pancreatic exocrine tissues (acinar and ductal) had significantly elevated expression in both 4 and 10 wk PX islets. In **Figure 4** increased portein expression of pancytokeratin in islets in 4 wk PX rats was shown. Exocrine proteins carboxypeptidase B (**A**) and SPP1 (**B**) are shown to be present in some beta cells in 4 wk PX (shown here) and 10 wk PX (data not shown).Panels **A** and **B** are merged images with insulin (red) and carboxypeptidase or SPP1 (green);the **A'** and **B'** panels show only the green channel with insets at higher magnifications (**"** and **"'**) of the indicated firelds. As seen in **A"** islet beta cells express carboxypeptidase B protein albeit at lower expression than in the acinar cells whereas in adjacent islet (**A"')** few if any do. **B.** SPP1 usually considered a marker of pancreatic ducts is seen in occasional islets as shown here. In the inset (**B"**) at higher magnifcation the insulin positive cells on the left of the blood vessel expressed SPP1protein whereas those on the right do not. Rbc= red blood cells in blood clot. Duct= the expected positive staining of pancreatic ducts for SPP1. Magnifcation bar = 50 μm.