



Supplementary Fig. 3. Starvation-induced light chain 3 (LC3) lipidation was inhibited in autophagy related 7 (ATG7)-deficient islets. Pancreatic islets were isolated from wild type and beta cell-specific *Atg7* deletion (*Atg7^{Δβ cell}*) mice at age around 20 to 25 weeks. For autophagy induction, the islets were further incubated in serum-free media containing 4-nM bafilomycin A1 for 5 hours. Western blotting was conducted with total protein and ratios of light chain 3B (LC3B) type II to type I were calculated. A representative blot is presented. One-way analysis of variance (ANOVA) with Bonferroni posttest was applied. The lines and error bars represent mean \pm standard error of the mean. *Atg7^{Δβ cell}*, *Atg7^{fl/fl}:Rip-Cre⁺*; WT, wild-type. ^a $P < 0.05$ in the *post hoc* analyses.