



Fig. S5 Deletion of *Igf1* suppressed p-AKT and pS6 activity. **a** qRT-PCR analysis for *Igf1* in the intestine of control and *Igf1* cKO mice (n=3). **b** qRT-PCR analysis for *Lgr5*, *Ascl2* and *Sox9* in the jejunum of control and *Igf1* cKO mice (n=3). **c** Immunofluorescence for Ki67 and β -Catenin in jejunum of control and *Igf1* cKO mice. Quantification of Ki67⁺ cells per crypt (n=3). Scale bar: 25 μ m. **d** Western blotting for p-AKT(T308), p-AKT(S473), AKT, p-ERK and ERK in jejunum from control and *Igf1* cKO mice 3 days postirradiation. β -Actin was used as a loading control. **e, f** Immunofluorescence for p-S6 (**e**) and p-4EBP1 (**f**) in the jejunum from control and *Igf1* cKO mice three days postirradiation. The percentage of p-S6⁺ and p-4EBP1⁺ cells in each focus was quantified. Scale bar: 25 μ m. Values in the graphs represent means \pm SD. Unpaired student's t-test was used for calculating P values in **a - c** and **e, f**, *P < 0.05; **P < 0.01; ***P < 0.001.