

Supporting Information

Becattini et al. 10.1073/pnas.1106698108

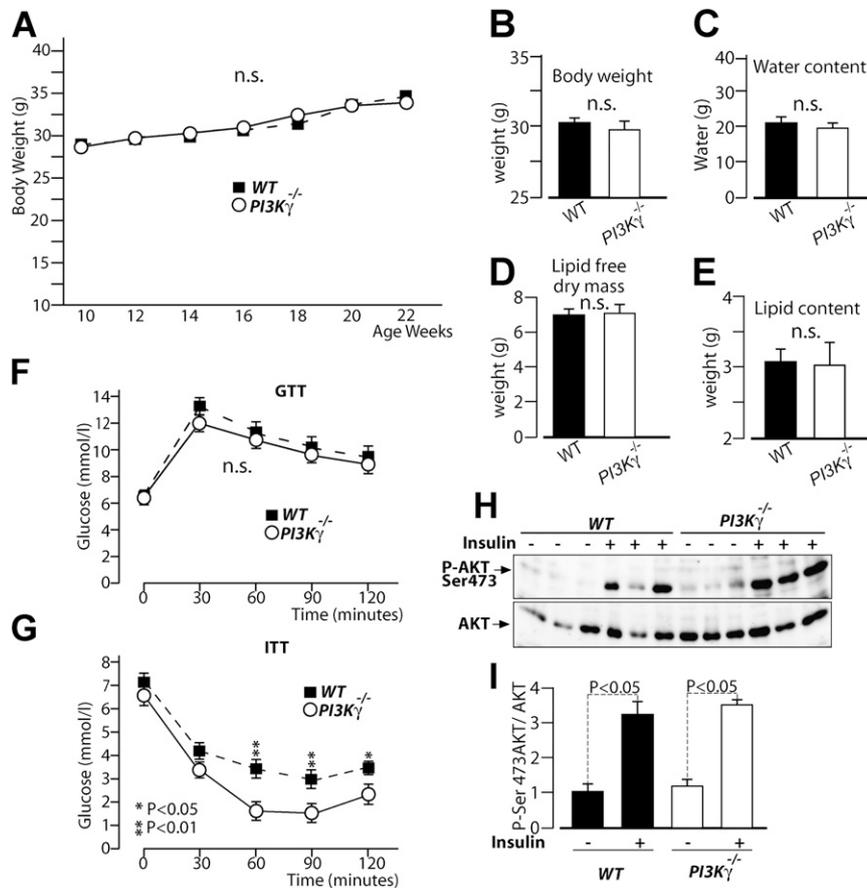


Fig. S1. $PI3K\gamma^{-/-}$ mice placed on chow diet display comparable growth curves with WT mice and marginally improved glucose homeostasis. (A) Growth curves of WT and $PI3K\gamma^{-/-}$ mice placed on chow diet. (B–E) Body composition of WT and $PI3K\gamma^{-/-}$ mice placed on chow diet. (F) Glucose tolerance test (GTT) and (G) insulin tolerance test (ITT) of WT and $PI3K\gamma^{-/-}$ mice placed on chow diet at the age of 20 wk. (H and I) Immunoblot analysis of protein kinase B (PKB)/AKT phosphorylation in extensor digitorum longus muscles stimulated ex vivo with 0.1 μ M insulin. Data are represented as mean, and error bars indicate SEM.

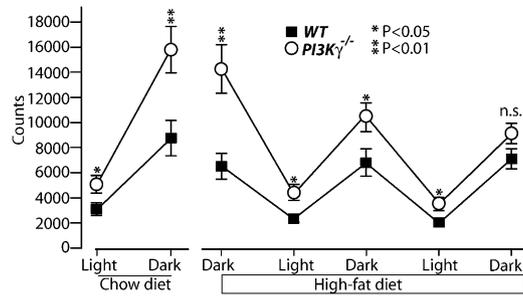


Fig. 56. $PI3K\gamma^{-/-}$ mice display increased physical activity relative to WT control mice. Physical activity was evaluated in $PI3K\gamma^{-/-}$ and WT mice by infrared beams breaking during the calorimetry described in Fig. 4 I and J. Data are represented as mean \pm SEM.

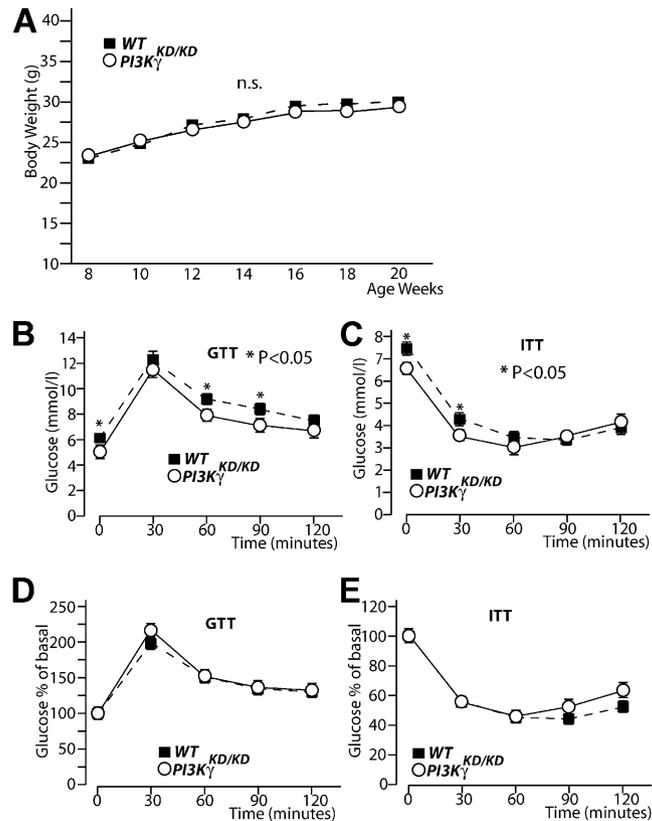


Fig. 57. $PI3K\gamma^{KD/KD}$ mice placed on chow diet display comparable growth curves to WT control mice and marginally improved glucose homeostasis. (A) Growth curves of WT and $PI3K\gamma^{KD/KD}$ mice placed on chow diet. (B) GTT and (C) ITT of WT and $PI3K\gamma^{KD/KD}$ mice placed on chow diet at the age of 20 wk. (D and E) The GTT and ITT data from B and C are here presented as percent variation from baseline. Data are represented as mean, and error bars indicate SEM.

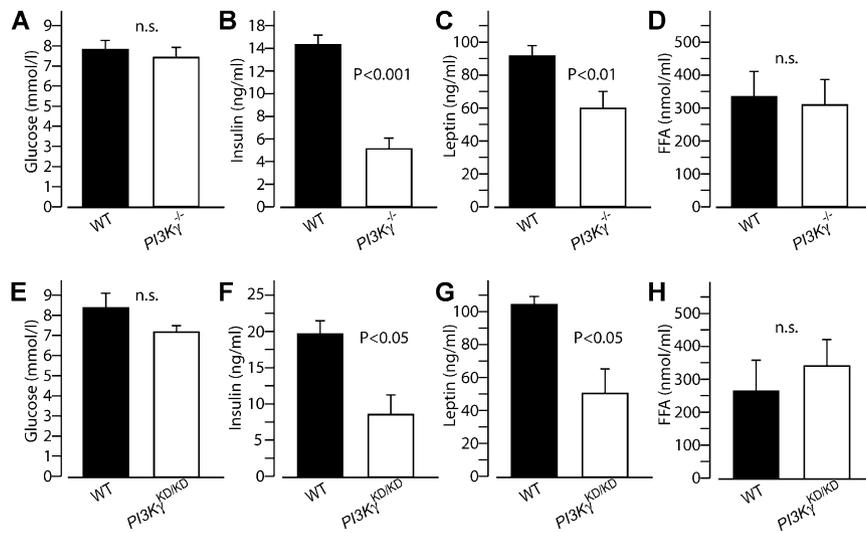


Fig. S8. *PI3Kγ^{-/-}* and *PI3Kγ^{KDIKD}* mice display decreased plasma leptin but similar free fatty acids (FFA) compared with WT mice. (A) Fed plasma glucose, (B) plasma insulin (C) leptin, and (D) FFA levels from the mice described in Fig. 2. (E) Fed plasma glucose, (F) plasma insulin, (G) leptin, and (H) FFA levels from the mice described in Fig. 6. Data are represented as mean ± SEM.

Table S1. List of primers used for quantitative PCR

Target sequence	Forward	Reverse
IL-1β	GCAACTGTTCTGAACTCAACT	TCTTTGGGGTCCGTCAACT
F4/80	CTTTGGCTATGGGCTTCCAGTC	GCAAGGAGGACAGAGTTTATCGTG
FcεRI	TAGCACTGCTGTTTCATGTCTC	GAGTTCATTGAAGGTGATTGTT
TNF-α	CCCCAAAGGGATGAGAAGTT	CTCCTCCACTTGGTGTTTTG
MCP-1	CCCCAAGAAGGAATGGGTCC	GGTTGTGGAAAAGGTAGTGG
MIP-1 (ccl3)	TTCTCTGTACCATGACACTCTGC	CGTGGAATCTCCGGCTGTAG
Osteopontin (spp1)	TCCCTCGATGTCATCCCTGT	CCCTTTCCGTTGTTGCCTG
PAI (serpine1)	TCCTCATCCTGCCTAAGTTCTC	GTGCCGCTCTCGTTTACCTC
CXCL14	TAGCTGGAGCGAGCCGAGCA	GGGAGCAGGGAGGCAAGGA
IL1-Ra	AAATCTGCTGGGACCCTAC	TCTTCTAGTTTGATATTTGGTCCTTG
IL-6	TCCTACCCCAATTTCTGTCTC	TTGGATGGTCTTCCTTAGCC
Cyclophilin	ATGGTCAACCCACCCTGT	TTTCTGCTGCTTTGGAACCTTTGTC