Supplemental Fig. 5. Insulin resistance and ectopic TAG storage in AdPLA null mice.

(A) Glucose (GTT) and insulin (ITT) tolerance in 18 wk old male WT and KO mice fed a SD (n=11) (B) glucose infusion rate (GINF) and (C) plasma glucose during the hyperinsulinemic euglycemic clamp study in 12 wk old male WT and KO mice fed a HFD. (D) Top panel: Livers from 16 wk old male mice fed a HFD were stained with hematoxylin and eosin (H&E). Bottom panel: cryostat sections of frozen livers from 16 wk old male mice fed a HFD were stained with Oil red O. (E) Cryostat sections of frozen soleus muscles from 16 wk old male, HFD fed WT and KO mice stained with Oil red O. (F) Immunoblot analysis of total and phosphorylated IRS-1 in gastrocnemius muscle. (G) Top panel: Immunoblot analysis of total AMPK or phosphorylated AMPK in gastrocnemius muscle from 18 wk old male WT and KO mice fed a HFD. Bottom panel: RT-PCR for acyl-CoA oxidase (ACO) using RNA from gastrocnemius skeletal muscle from 18-wk old male WT and KO mice fed a HFD. (H) Oxidation of [U-14C]-palmitate in homogenates of skeletal muscle from wild type or AdPLA null (n=4). Results are means ± SEM, *P<0.05. Results are means ± SEM, * P< 0.05, *** P<0.001.