SUPPLEMENTAL DATA

Figure S1. Glucose homeostasis in chow fed Ptpn2+/– mice. 8-10 week old *Ptpn2*+/– and +/+ littermate male mice were fed a standard chow diet for 20 weeks and (**a**) body weights and the indicated tissue weights determined. (**b**) Fed and fasted (6 h) blood glucose and fasted plasma insulin levels were measured. Mice were fasted for (**c**) 6 h and glucose tolerance tests (GTTs) performed, or (**d**) 4 h and insulin tolerance tests (ITTs) performed. Results shown are means ± SE; * $p<0.05$ by a two-tailed student's t-test.

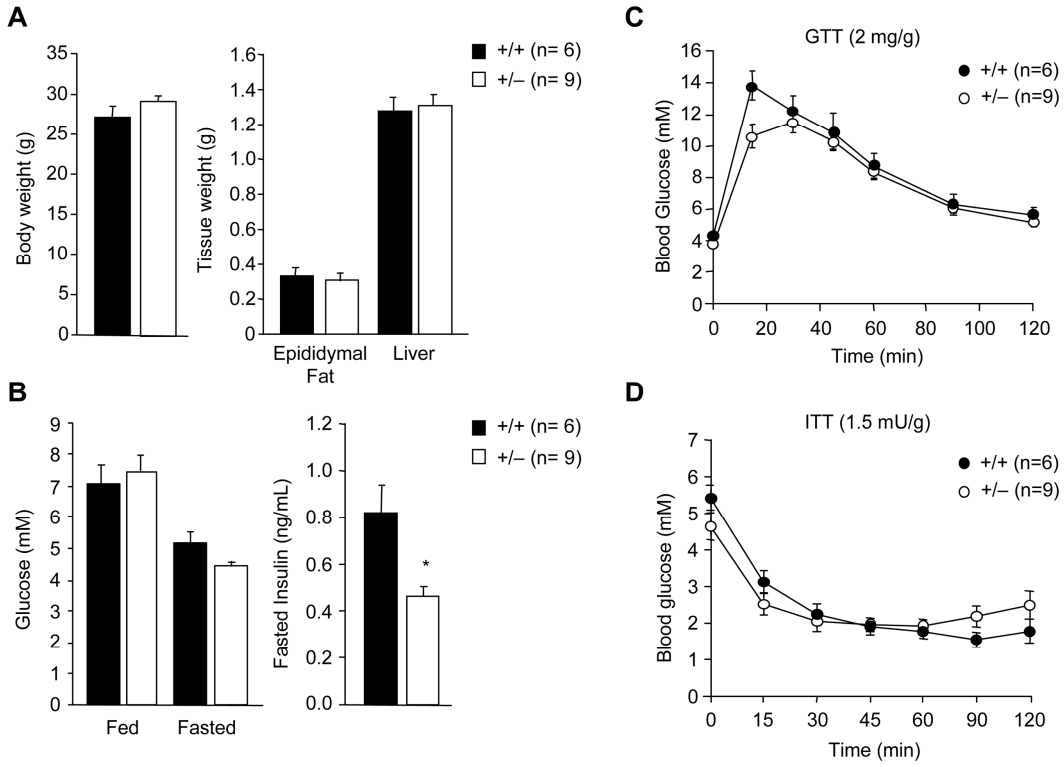

Figure S2. TCPTP protein levels are not altered in obese mice. Liver, *gastrocnemius* muscle, or epididymal white adipose tissue (WAT) was extracted from 6 month old chow fed lean (C57BL/6) mice or *Ob*/*Ob* (C57BL/6) obese mice and processed for immunoblot analysis. Representative blots and quantified results (arbitrary units: AU) are shown (means ± SE).

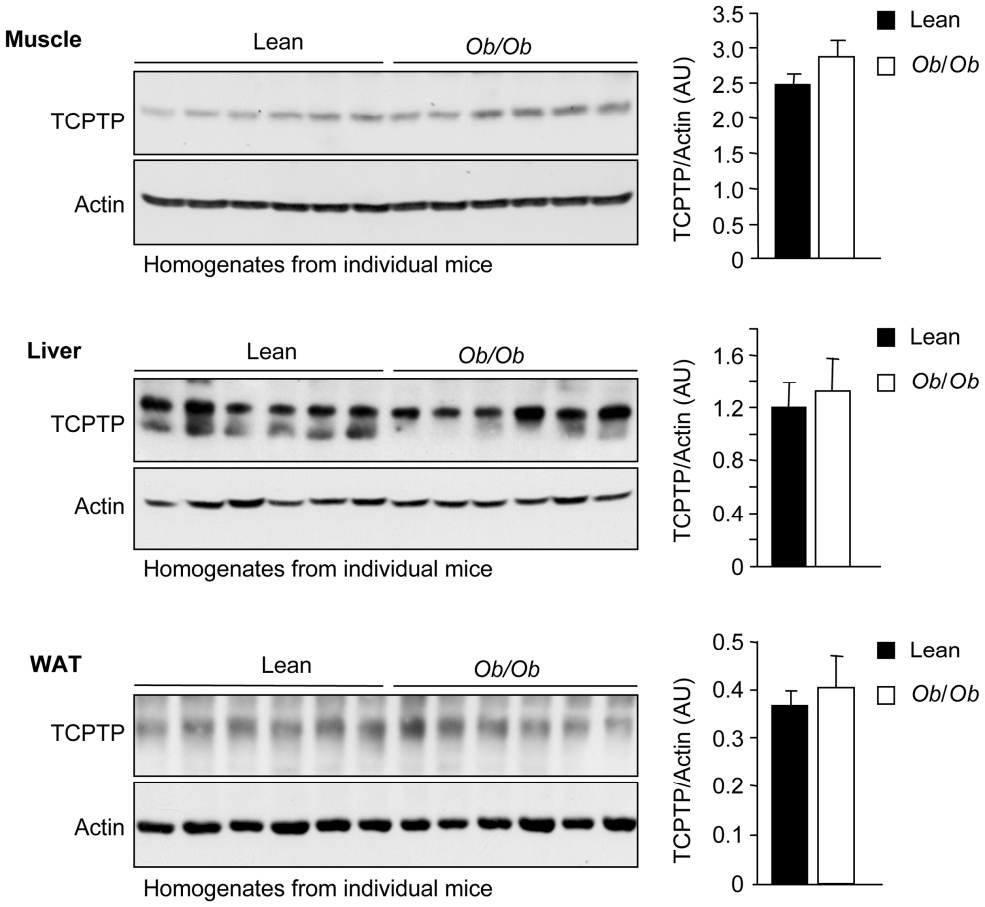

Figure S3. Gluconeogenesis is not altered in chow fed Ptpn2+/– mice. Chow fed *Ptpn2*+/– and +/+ male mice were processed for (**a**) pyruvate tolerance tests, or fasted for 4 h and livers extracted and processed for (**b**) quantitative (ΔΔCt) real time PCR to measure the expression of gluconeogenic genes *Pck1* and *G6pc*, or (**c**) immunoblot analysis to assess basal PI3K/Akt signaling (Akt Ser-473 phosphorylation) and STAT3 Y705 phosphorylation.

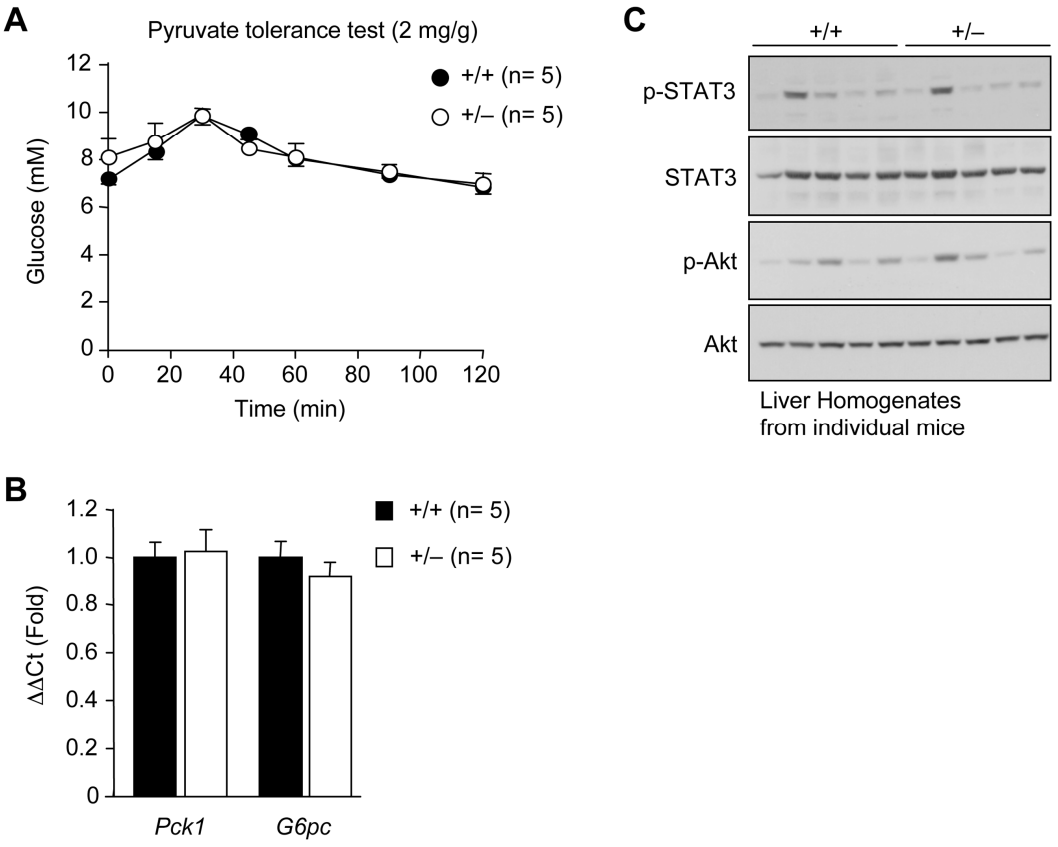

Figure S4. Unaltered insulin-induced IR phosphorylation, IRS-1/2 phosphorylation and PI3K/Akt signaling in Ptpn2+/– mice. 8-10 week old *Ptpn2*+/– and +/+ male mice were fed a high fat diet for 15 weeks. Fasted (4 h) mice were injected with saline or insulin (2 mU/g, intraperitoneal) for 10 min and tissues extracted. (**a**) Livers were homogenised, clarified lysates resolved by SDS-PAGE and insulin signaling in individual mice assessed by immunoblot analysis and quantified by densitometry. (**b**) Livers were homogenised, clarified by centrifugation and IRS-1 (06-248; Upstate, Billerica, MA) or IRS-2 (06-506; Upstate; 4 mg antibody in each case) immunoprecipitated (1 mg of protein, 3 h contact time). IRS-1/2 immunoprecipitates were resolved by SDS-PAGE and immunoblotted for phosphotyrosine (pTyr; 4G10, Upstate) and IRS-1 or -2 as indicated. Representative blots and quantified results (arbitrary units: AU) are shown (means ± SE). (**c**) Epididymal WAT, or *gastrocnemius* muscle was extracted, homogenised and clarified lysates processed for immunoblot analysis as indicated.