

Figure S1. Flow cytometry analysis of galectin-expressing cells in VAT and SAT of lean and DIO mice. Mice were fed regular chow (Lean, open columns) or HFD (DIO, black columns) for 13 weeks. **Panel A:** gating strategy for evaluation of F4/80⁺/CD11c⁻ and F4/80⁺/CD11c⁺ cells expressing Gal-1, Gal-3 and Gal-9. **Panel B:** Representative plots gated on F4/80⁺ cells from VAT and SAT of lean and DIO mice.

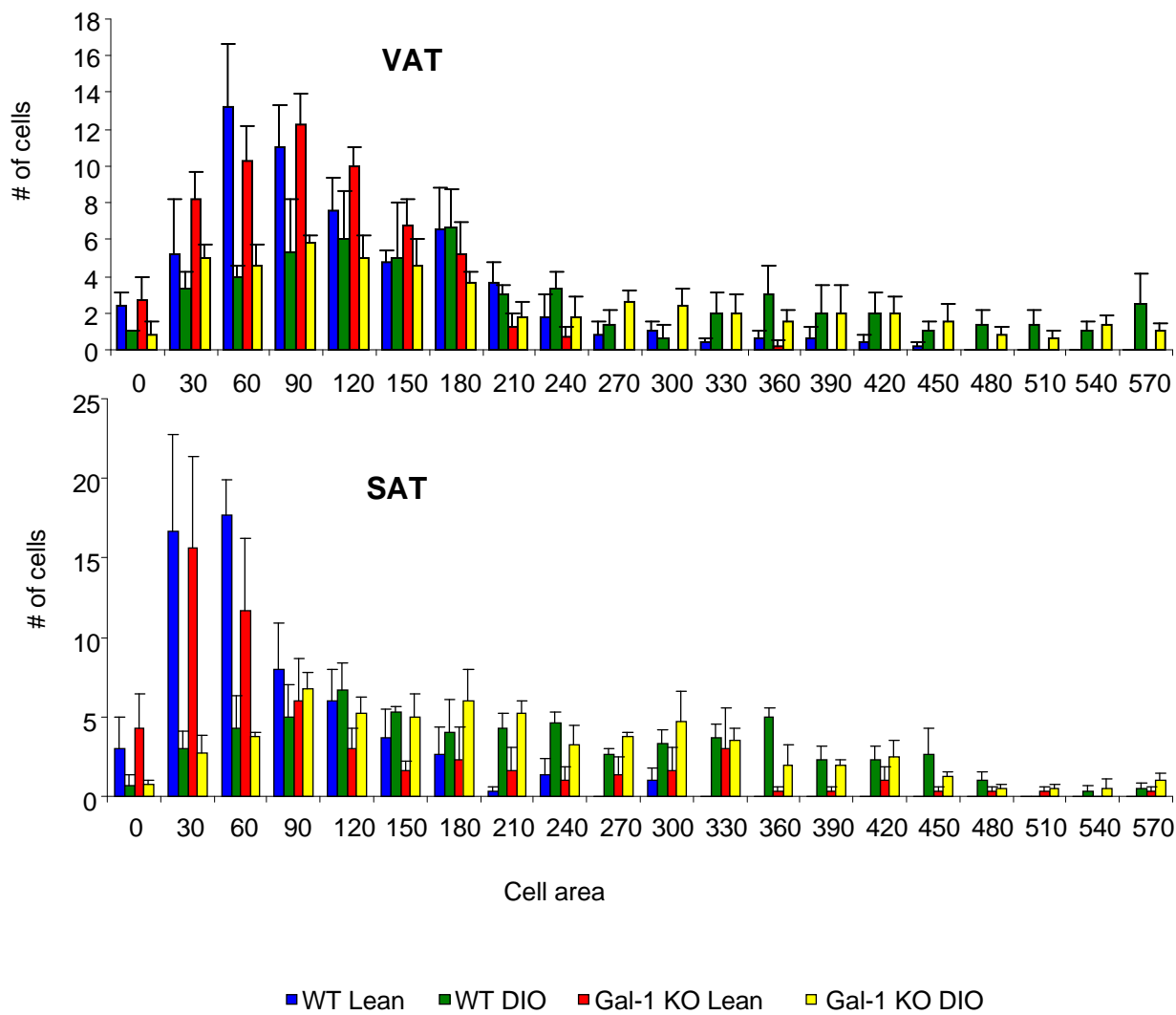


Figure S2. Distribution of adipocyte size in VAT and SAT of lean and DIO WT and Gal-1 KO mice. Adipocyte size was evaluated in VAT and SAT of WT Lean (blue columns), WT DIO (green columns), Gal-1 KO Lean (red columns) and Gal-1 KO DIO (yellow columns) using ImageJ software. Data are mean +/- SEM of 5 mice per group.

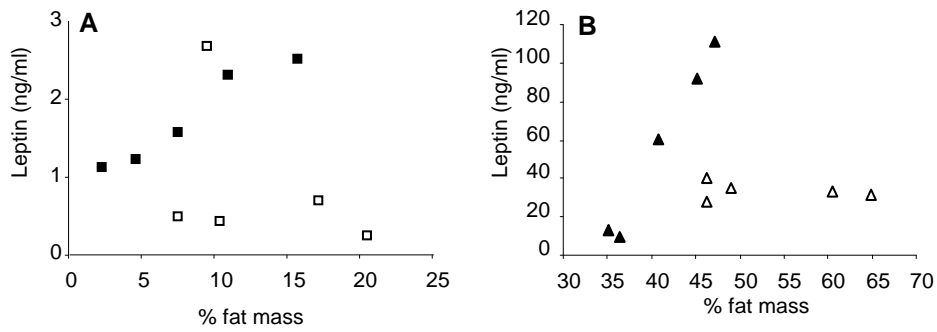


Figure S3. Correlation between fat mass and serum leptin in WT and Gal-1 KO lean and DIO mice. Panel A: Correlation between % fat mass and circulating leptin levels in WT (black squares) and KO (white squares) mice fed chow diet for 13 weeks. WT mice = $R^2=0.94$, $p=0.007$; KO mice: $R^2=0.13$, $p=0.063$. **Panel B:** Correlation between % fat mass and circulating leptin levels in WT (black triangles) and KO (white triangles) mice fed HFD for 13 weeks. WT mice = $R^2=0.90$, $p=0.001$; KO mice: $R^2=0.07$, $p=0.65$.